

Product catalogue Benelux



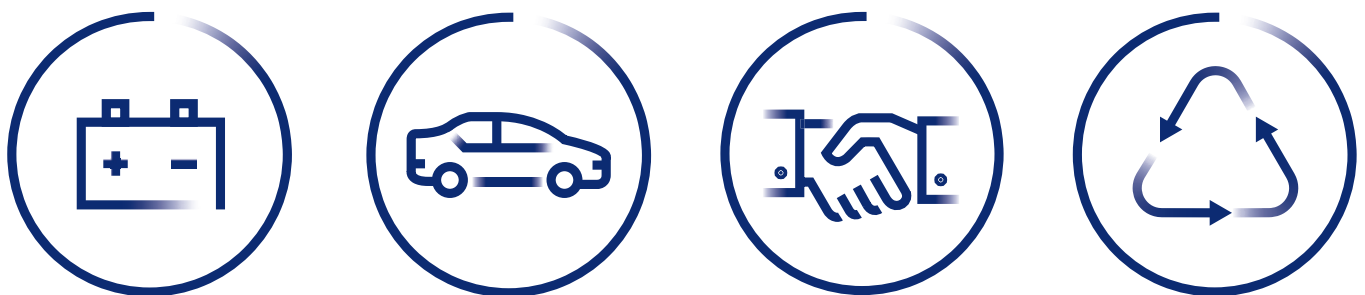
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Ecobat - Transforming Energy Storage

Ecobat Battery is part of Ecobat, the world's largest battery recycler, and the world's largest producer of lead.

Not only are we Europe's number one battery supplier, we actively contribute to the circularity and sustainability of batteries.

Using our pan-European logistics and resource network, we collect batteries for sorting and appropriate compliant recycling according to chemistry.



Our lead-acid battery recycling process has a recovery rate of 97-99%, generating newly-recycled materials like lead and polypropylene.

Our EV diagnosis and disassembly centre was opened in the UK in January 2021 and provides recycling and re-engineering services for advanced batteries, including lithium-ion EV packs. We are now recycling advanced battery chemistries across Europe.

Elsewhere across the group, we supply lead for architectural purposes as well as being Europe's largest producer of recycled polypropylene.

Sustainability is at the heart of everything we do, whether in ensuring the most up-to-date, compliant processes or acting as responsible environmental stewards.



VMF batteries are built to the very highest specification to cope with today's automotive electrical demands. That's why people trust the VMF battery brand to give them the performance they need no matter how harsh the conditions.

Calcium-Tin technology and state of the art Punched Full Frame Grids make for superior starting and unbeatable reliability. Comes with excellent safety features such as build-in Flame arrestor and special sealed cover design to minimize gassing and prevent acid leakage. Completely maintenance free.

VMF Green system

Article Code	Capacity	CCA EN	Measurement (mm)	Base Hold Down	Lay-out	Terminal
53520	12V 35Ah	300 EN	187x127x200x220	B00	0	JIS
53522	12V 35Ah	300 EN	187x127x227X227	B00	1	JIS
53587	12V 35Ah	300 EN	187x127x227X227	B01	0	JIS
54018	12V 40Ah	340 EN	175x175x190x190	B13	0	DIN
54459	12V 45Ah	400 EN	207x175x190x190	B13	0	DIN
54464	12V 45Ah	400 EN	207x175x190x190	B13	1	DIN
54465	12V 44Ah	440 EN	207x175x175x175	B13	0	DIN
54520	12V 45Ah	390 EN	187x127x200x220	B00	0	JIS
54522	12V 45Ah	390 EN	187x127x200x220	B00	1	JIS
54523	12V 45Ah	330 EN	238x129x200x220	B00	0	DIN
54524	12V 45Ah	330 EN	238x129x200x220	B00	1	DIN
54551	12V 45Ah	330 EN	238x129x227X227	B00	1	JIS
54577	12V 45Ah	300 EN	219x135x205x225	B01	0	DIN
54579	12V 45Ah	300 EN	219x135x205x225	B01	1	DIN
54584	12V 45Ah	330 EN	238x129x227X225	B00	0	JIS
54587	12V 45Ah	390 EN	187x127x200x220	B01	0	JIS
55041	12V 50Ah	420 EN	200x172x200x220	B01	0	DIN
55042	12V 50Ah	420 EN	200x172x200x220	B01	1	DIN
55054	12V 52Ah	470 EN	207x175x190x190	B13	0	DIN
55426	12V 53Ah	470 EN	242x175x175x175	B13	0	DIN
55559	12V 56Ah	480 EN	242x175x190x190	B13	0	DIN
55565	12V 56Ah	480 EN	242x175x190x190	B13	1	DIN
55716	12V 60Ah	510 EN	236x182x157x178	B08	0	DIN
55717	12V 60Ah	510 EN	236x182x157x178	B08	1	DIN
56010	12V 75Ah	580 EN	230x179x180x180	B01	1	SIDE
56029	12V 60Ah	500 EN	260x172x180x200	B01	1	DIN

VMF Green System

Article Code	Capacity	CCA EN	Measurement (mm)	Base Hold Down	Lay-out	Terminal
56068	12V 60Ah	510 EN	232x173x225x225	B00	0	DIN
56068B1	12V 60Ah	480 EN	230x172x200x220	B01	0	DIN
56069	12V 60Ah	510 EN	232x173x225x225	B00	1	DIN
56077	12V 60Ah	540 EN	242x175x175x175	B13	0	DIN
56219	12V 62Ah	540 EN	242x175x190x190	B13	0	DIN
56526	12V 55Ah	460 EN	230x172x180x200	B01	1	DIN
57010	12V 80Ah	690 EN	260x179x180x180	B01	1	SIDE
57024	12V 70Ah	550 EN	261x175x200x220	B01	1	DIN
57029	12V 70Ah	550 EN	261x175x200x220	B01	0	DIN
57113	12V 72Ah	680 EN	278x175x175x175	B13	0	DIN
57219	12V 70Ah	640 EN	278x175x190x190	B13	1	DIN
57412	12V 74Ah	680 EN	278x175x190x190	B13	0	DIN
58019	12V 80Ah	670 EN	315x175x190x190	B13	1	DIN
58035	12V 80Ah	740 EN	315x175x175x175	B13	0	DIN
58043	12V 80Ah	670 EN	315x175x190x190	B13	0	DIN
58515	12V 83Ah	720 EN	353x175x175x175	B13	0	DIN
58827	12V 90Ah	720 EN	353x175x190x190	B13	0	DIN
59065	12V 80Ah	690 EN	296x187x171x191	B08	1	DIN
60032	12V 100Ah	830 EN	306x173x200x225	B01	0	DIN
60033	12V 100Ah	830 EN	306x173x200x225	B01	1	DIN
60038	12V 100Ah	830 EN	353x175x190x190	B13	0	DIN
60800	12V 105Ah	800 EN	330x172x220x240	B01	5	DIN
60801	12V 105Ah	800 EN	330x172x220x240	B01	5	STUD
60802	12V 105Ah	1000 SAE	330x171x217x242	B01	5	DIN
61042	12V 110Ah	950 EN	398x174x190x190	B13	0	DIN

VMF Start-Stop EFB

Article Code	Capacity	CCA EN	Measurement (mm)	Base Hold Down	Lay-out	Terminal
EFB545410	12V 45Ah	460 EN	234x127x220x220	B00	0	DIN
EFB545410R	12V 45Ah	460 EN	234x127x220x220	B00	1	DIN
EFB560560	12V 60Ah	560 EN	242x174x190x190	B13	0	DIN
EFB560620	12V 65Ah	620 EN	230x172x200x220	B00	0	DIN
EFB560620R	12V 65Ah	620 EN	230x172x200x220	B00	1	DIN
EFB565650	12V 65Ah	650 EN	277x174x175x175	B13	0	DIN
EFB568730	12V 68Ah	670 EN	257x172x200x220	B01	0	DIN
EFB568730R	12V 68Ah	670 EN	257x172x200x220	B01	1	DIN
EFB570650	12V 70Ah	650 EN	277x174x190x190	B13	0	DIN
EFB575730	12V 75Ah	730 EN	315x174x175x175	B13	0	DIN
EFB580730	12V 80Ah	730 EN	315x174x190x190	B13	0	DIN
EFB580740	12V 80Ah	800CCA	302x172x220x220	B01	0	DIN
EFB580740R	12V 80Ah	800CCA	302x172x220x220	B01	1	DIN
EFB595900	12V 95Ah	900 EN	352x175x190x190	B13	0	DIN
EFB610950	12V 110Ah	950 EN	398x174x190x190	B13	0	DIN

VMF Start-Stop AGM

Article Code	Capacity	CCA EN	Measurement (mm)	Base Hold Down	Lay-out	Terminal
AGM545350	12V 45Ah	350 EN	236x125x220X220	B00	0	JIS
AGM545350R	12V 45Ah	350 EN	236x125x220X220	B00	1	JIS
AGM550540	12V 50Ah	540 EN	207x175x190x190	B13	0	DIN
AGM560520	12V 60Ah	520 EN	232x175x200x225	B01	0	DIN
AGM560520R	12V 60Ah	520 EN	232x175x200x225	B01	1	DIN
AGM560680	12V 60Ah	680 EN	242x174x190x190	B13	0	DIN
AGM570760	12V 70Ah	760 EN	277x174x190x190	B13	0	DIN
AGM575720	12V 75Ah	720 EN	260x172x200x220	B01	0	DIN
AGM575720R	12V 75Ah	720 EN	260x172x200X220	B01	1	DIN
AGM580800	12V 80Ah	800 EN	314x174x190x190	B13	0	DIN
AGM590800	12V 90Ah	800 SAE	302x172x200x220	B00	0	DIN
AGM590800R	12V 90Ah	800 SAE	302x172x200x220	B00	1	DIN
AGM595850	12V 95Ah	850 EN	352x174x190X190	B13	0	DIN
AGM605950	12V 105Ah	950 EN	393x174x190X190	B13	0	DIN





VMF Truckline HD

These batteries are designed with special features to extend life and starting reliability for the demands typical of heavy-duty commercial.

VMF Semi Traction SHD

Truckline Semitraction batteries feature Glass Fiber separators for cycling stability, vibration resistance and extended service life. Equipment as well as marine and agricultural applications. Pounding vibration, frequent starts, long idle periods and weather extremes are no match for a Truckline battery. They are specially designed to provide plenty of cold cranking power for easy starting and ample reserve power to handle the cycling demands typical of LGVs, buses, coaches, marine and other applications.

VMF Truckline HD

Article Code	Capacity	CCA EN	Measurement (mm)	Base Hold Down	Lay-out	Terminal
60026	12V 100Ah	600 EN	413x175x220	B00	0	DIN
60035	12V 100Ah	600 EN	413x175x220	B00	1	DIN
60527	12V 105Ah	720 EN	350x175x230	B01	1	DIN
61023	12V 110Ah	760 EN	514x175x210	B03	0	DIN
61031	12V 105Ah	850 EN	415x175x206	B03	0	DIN
61047	12V 110Ah	680 EN	347x173x234	B01	0	DIN
61048	12V 110Ah	680 EN	347x173x234	B00	1	DIN
62034	12V 120Ah	680 EN	513x189x223	B00	3	DIN
62511	12V 125Ah	720 EN	349x175x290	B00	3	DIN
62513	12V 125Ah	720 EN	349x175x290	B00	1	DIN
63013	12V 130Ah	680 EN	514x218x208	B00	3	DIN
63211	12V 143Ah	900 EN	508x174x205	B01	0	DIN
63527	12V 135Ah	680 EN	360x253x240	B11	0	DIN
63539	12V 135Ah	1000 EN	514x175x210	B03	3	DIN
63547	12V 135Ah	760 EN	513x189x223	B03	4	DIN
63548	12V 140Ah	760 EN	513x189x223	B03	3	DIN
64020	12V 140Ah	760 EN	513x189x223	B00	3	DIN
64317	12V 155Ah	900 EN	513x223x223	B00	3	DIN
65411	12V 154Ah	1150 EN	513x189x223	B00	3	DIN
66514	12V 170Ah	1000 EN	513x223x223	B00	3	DIN
68011	12V 180Ah	1400 EN	510x223x223	B00	3	DIN
68022	12V 180Ah	1000 EN	513x223x223	B00	3	DIN
68089	12V 180Ah	1100 EN	513x223x223	B00	4	DIN
69033	12V 190Ah	1200 EN	513x223x223	B03	4	DIN
70027	12V 200Ah	1050 EN	518x276x242	B00	3	DIN
72511	12V 225Ah	1150 EN	518x276x242	B00	3	DIN

VMF Semi-Traction SHD

Article Code	Capacity	CCA EN	Measurement (mm)	Base Hold Down	Lay-out	Terminal
95406	12V 50Ah	400 EN	211x175x190	B03	0	DIN
95502	12V 60Ah	560 EN	246x175x190	B03	0	DIN
95551	12V 68Ah	550 EN	260x175x225	B01	1	DIN
95602	12V 75Ah	650 EN	278x175x190	B03	0	DIN
95751	12V 90Ah	800 EN	353x175x190	B03	0	DIN
95752	12V 105Ah	650 EN	303x172x225	B01	0	DIN
95804	12V 110Ah	680 EN	347x173x234	B00	0	DIN
95901	12V 120Ah	600 EN	415x175x215	B13	0	DIN
96002	12V 125Ah	720 EN	349x175x290	B00	0	DIN
96151	12V 140Ah	800 EN	513x189x223	B00	3	DIN
96351	12V 180Ah	1000 EN	513x223x223	B00	3	DIN
96801	12V 230Ah	1000 EN	518x276x242	B00	3	DIN
96803	12V 230Ah	1150 EN	518x276x242	B00	3	DIN

VMF Truckline EFB

Article Code	Capacity	CCA EN	Measurement (mm)	Base Hold Down	Lay-out	Terminal
EFB680110	12V 180Ah	1100 EN	513x223x223	B00	3	DIN
EFB730125	12V 230Ah	1250 EN	514x276x242	B00	3	DIN



Lay-out

0	1	2	3	4	5

Terminal

	DIN	JIS	FORD	STUD	MARINE	SIDE	UT
POS				 3/8"-16 THREADS			
NEG				 3/8"-16 THREADS			

Hold-Down

B1	 10.5mm on long sides only	B9	 slots on long sides, 29.0mm on short sides
B4	 3 notches 19.0mm on long sides only	B9 (22F)	 slots on long sides, 29.0mm on short sides
B6	 29.0mm on short sides	B13	 5 notches 10.5mm on all four sides
B8	 13.5mm on long sides only	B14	 5 notches 19.0mm on long sides, 10.5mm on short sides



VMF Powersport HP

VMF Powersport HP batteries are produced with sulphation resistant plates, making them invulnerable to the negative effects of deep discharge, which are so often the cause of premature failure in Powersport batteries. With glass matt separators and reinforced connectors, the VMF Powersport HP is the true working horse for not only motor cycles, but also for a wide range of small engines and tractors.

VMF PowerSport MF

VMF POWERSPORT maintenance free motorcycle batteries feature Absorbed Glass Mat (AGM) technology. Once filled with the supplied electrolyte, these premium maintenance-free AGM batteries are sealed and completely eliminate the hassles of conventional motorcycle battery maintenance. They cannot spill or leak, resist heat and vibration far better, and pack more pure cranking power than conventional motorcycle batteries.

VMF Powersport High Performance 6V

Model	JIS	Cap. (Ah) C10	CCA	Length (mm)	Width (mm)	Height (mm)	Total Height	Lay-out	Terminal Type	Remarks
00214	6N2A-2C-3	2Ah	26 EN	70	46	103	103	1	Faston 1	w/acid
00299	6N2-2A	2Ah	26 EN	70	46	95	95	1	Faston 1	w/acid
00412	6N4B-2A	4Ah	30 EN	100	47	96	96	1	Faston 1	w/acid
00413	6N4A-4D	4Ah	45 EN	60	56	130	130	N/A	Faston 1	w/acid
00415	6N4C-1B	4Ah	30 EN	70	70	103	103	0	Faston 1	w/acid
00497	6N4-2A	4Ah	35 EN	70	70	95	95	N/A	Faston 1	w/acid
00611	6N6-3B	6Ah	40 EN	99	57	110	110	3	Y6	w/acid
00612	6N6-3B-1	6Ah	40 EN	99	57	110	110	3	Y6	w/acid
00613	6N6-1D-2	6Ah	40 EN	99	57	110	110	0	Faston	w/acid
00617	6N5.5-1D	5,5Ah	40 EN	88	68	97	97	0	Faston	w/acid
00714	B39-6	7Ah	70 EN	126	48	126	126	0	Y6	w/acid
00811	B49-6	10Ah	90 EN	91	83	160	160	1	Y6	w/acid
00817	6CB8-3B	8Ah	83 EN	120	71	95	95	3	Y6	w/acid
01114	6N11-2D	11Ah	130 EN	151	71	100	100	1	Y6	w/acid
01117	6N11A-4(A)	11Ah	130 EN	121	59	129	129	0	Y6	w/acid
01199	6N11A-1B	11Ah	130 EN	122	62	132	132	0	Y6	w/acid
01214	6N11A-3A	11Ah	130 EN	120	60	128	128	3	Y6	w/acid
01225	6N12A-2D	12Ah	155 EN	155	56	114	114	1	Y6	w/acid
01411	B38-6A	13Ah	120 EN	119	83	161	161	0	Y6	w/acid
02211	CB2-6	22Ah	200 SAE	110	96	212	212	1	Y9	w/acid

VMF Powersport High Performance 12V

Model	JIS	Cap. (Ah) C10	CCA	Length (mm)	Width (mm)	Height (mm)	Total Height	Lay-out	Terminal Type	Remarks
50311	CB2.5L-C(2)	2,5Ah	26 EN	81	71	105	105	0	Faston	w/acid
50312	YB3L-A	3Ah	42 EN	98	56	111	111	0	Y6	w/acid
50313	YB3L-B	3Ah	42 EN	98	56	111	111	0	Y6	w/acid
50411	YB4L-B	4Ah	45 EN	120	70	92	92	0	Y4	w/acid
50498	YB4L-A	4Ah	45 EN	120	70	92	92	0	Y4	w/acid
50512	YB5L-B	5Ah	60 EN	120	61	130	130	0	Y6	w/acid
50513	12N5-4B	5Ah	52 EN	120	61	130	130	1	Y6	w/acid
50610	12N5.5-4B	5,5Ah	78 EN	138	61	131	131	1	Y6	w/acid
50611	12N5.5-3B	5,5Ah	78 EN	138	61	131	131	0	Y6	w/acid
50612	12N5.5A-3B	5,5Ah	57 EN	104	91	115	115	0	Y6	w/acid
50711	12N7-4B	8Ah	117 EN	137	75	134	134	1	Y6	w/acid
50712	YB7L-B	8Ah	105 EN	137	75	134	134	0	Y6	w/acid
50791	YB7L-A	8Ah	105 EN	137	75	134	134	0	Y6	w/acid
50799	YB7C-A	8Ah	104 EN	130	90	116	116	0	Y1	w/acid
50813	YB7-A	8Ah	105 EN	137	75	134	134	1	Y6	w/acid
50914	YB9-B	9Ah	115 EN	137	75	139	139	1	Y6	w/acid
50915	YB9L-B	9Ah	115 EN	137	75	139	139	0	Y6	w/acid
50916	YB9L-A2	9Ah	115 EN	136	76	138	138	0	Y4	w/acid
50993	CB9A-A	9Ah	115 EN	136	76	149	149	1	Y6	w/acid
51096	CB10A-A2	11Ah	120 EN	134	90	158	158	1	Y8	w/acid
51112	YB10L-A2	11Ah	120 EN	134	90	158	158	0	Y4	w/acid
51113	YB10L-B2	11Ah	120 EN	134	90	145	145	0	Y4	w/acid
51114	YB10L-B	11Ah	120 EN	134	90	145	145	0	Y6	w/acid
51211	YB12A-A	12Ah	150 EN	134	80	160	160	1	Y6	w/acid
51212	YB12B-B2	13Ah	155 EN	161	91	131	131	1	Y6	w/acid
51213	YB12AL-A2	12Ah	150 EN	134	80	160	160	0	Y6	w/acid
51215	YB12A-B	12Ah	150 EN	134	80	160	160	1	Y6	w/acid
51217	YB12AL-A	12Ah	150 EN	134	80	160	160	0	Y6	w/acid
51294	YB12C-A	13Ah	150 EN	135	81	176	176	1	Y4	w/acid
51411	YB14L-A2	14Ah	175 EN	134	89	164	164	0	Y4	w/acid
51412	YB14-A2	14Ah	175 EN	134	89	164	164	1	Y4	w/acid
51413	YB14L-B2	14Ah	175 EN	134	89	164	164	0	Y4	w/acid
51414	YB14-B2	14Ah	175 EN	134	89	164	164	1	Y4	w/acid
51491	CB14A-A1	14Ah	175 EN	134	89	176	176	1	Y6	w/acid
51492	YB14A-A2	14Ah	175 EN	134	89	176	176	1	Y4	w/acid
51612	HCB16A-A	16Ah	182 EN	146	88	180	180	1	Y7	w/acid
51616	YB16AL-A2	16Ah	210 EN	205	70	162	162	0	Y2	w/acid
51617	CB16B-A/A1	16Ah	215 EN	160	90	158	158	1	Y4	w/acid

VMF Powersport High Performance 12V

Model	JIS	Cap. (Ah) C10	CCA	Length (mm)	Width (mm)	Height (mm)	Total Height	Lay-out	Terminal Type	Remarks
51811	YB18-A	18Ah	215 EN	179	90	164	164	1	Y7	w/acid
51815	YB18-LA	18Ah	215 EN	179	90	164	164	0	Y7	w/acid
51911	YB16LB	19Ah	215 EN	175	100	155	155	0	Y6	w/acid
51912	YB16-B	19Ah	215 EN	175	100	155	155	1	Y6	w/acid
51913	12Y16A-3B	20Ah	247 EN	185	82	170	170	0	Y10	w/acid
51914	YB16CLB	19Ah	240 EN	175	100	175	175	0	Y5	w/acid
51915	CB16HLA-CX	19Ah	215 EN	175	100	155	155	0	Y6	w/acid
51918	CB16-B-CX	19Ah	215 EN	175	100	155	155	1	Y6	w/acid
52011	Y50-N18A-A	20Ah	240 EN	206	92	166	166	1	Y7	w/acid
52012	Y50-N18LA2	20Ah	240 EN	206	92	160	160	0	Y7	w/acid
52017	Y50-N18LA3	20Ah	240 EN	206	92	160	160	0	Y4	w/acid
52805	12N24-4	24Ah	293 EN	184	124	174	174	1	Y3	w/acid
52815	12N24-3	24Ah	293 EN	184	124	174	174	0	Y3	w/acid
53030	Y60-N30L-A	28Ah	280 EN	185	126	170	170	0	Y3	w/acid
53033	C60-N24AL-B	24Ah	260 EN	185	126	170	170	0	Y10	w/acid
53035	YB30LB	30Ah	320 EN	168	132	176	176	0	Y4	w/acid
53036	YB30CLB	30Ah	320 EN	168	132	192	192	0	Y4	w/acid
53211	C60-N35L-A	32Ah	390 EN	232	130	165	165	0	Y10	w/acid
53236	YHD4-12	28Ah	280 EN	205	130	165	165	1	Y9	w/acid

VMF Powersport Maintenance Free

Model	JIS	Cap. (Ah) C10	CCA	Length (mm)	Width (mm)	Height (mm)	Total Height	Lay-out	Terminal Type	Remarks
50412	YTX5L-BS	4Ah	80 EN	114	70	105	105	0	Y5	w/acid
50496	YTX4L-BS	3Ah	50 EN	114	70	85	85	0	Y11	w/acid
50588	CTZ5-S	4Ah	70 EN	114	71	86	86	0	Y11	F/A*
50614	YTX7L-BS	6Ah	100 EN	114	70	130	130	0	Y5	w/acid
50615	YTX7A-BS	6Ah	105 EN	150	87	93	93	1	Y5	w/acid
50788	CTZ7-S	6Ah	130 EN	114	71	106	106	0	Y11	F/A*
50792	YT7B-4	6Ah	110 EN	150	65	92	92	1	Y11	F/A*
50812	YTX9-BS	8Ah	135 EN	150	87	105	105	1	Y5	w/acid
50984	YTX9A-BS	9Ah	108 EN	135	76	139	139	1	Y5	w/acid
50988	YT9B-4	8Ah	120 EN	150	69	105	105	1	Y11	F/A*
50989	CTZ10-S	8,6Ah	190 EN	150	86	94	94	1	Y11	F/A*
51001	YTX12A-BS	10Ah	160 EN	150	87	106	106	1	Y8	w/acid
51012	YTX12-BS	10Ah	180 EN	150	87	130	130	1	Y4	w/acid
51214	YTX14-BS	12Ah	200 EN	150	87	146	146	1	Y4	w/acid
51288	CTZ12-S	11Ah	210 EN	150	86	110	110	1	Y11	F/A*
51292	YT12B-4	10Ah	210 EN	150	69	130	130	1	Y11	F/A*
51301	YTX15L-BS	13Ah	230 EN	175	87	130	130	0	Y4	w/acid
51401	YTX16-BS	14Ah	230 EN	150	87	159	159	1	Y4	w/acid
51402	YTX16-BS-1	14Ah	230 EN	150	87	159	159	1	Y1	w/acid
51480	YTX14AH-BS	13Ah	220 EN	134	89	166	166	1	Y4	w/acid
51481	YTX14AHL-BS	13Ah	220 EN	134	89	166	166	0	Y4	w/acid
51488	CTZ14-S	11,2Ah	230 EN	150	86	110	110	1	Y11	F/A*
51493	YT14B-4	12Ah	210 EN	150	69	145	145	1	Y11	F/A*
51801	YTX20L-BS	18Ah	242 EN	175	87	155	155	0	Y4	w/acid
51802	YTX20-BS	18Ah	270 EN	175	87	155	155	1	Y4	w/acid
51803	YTX20HL-BS	18Ah	270 EN	175	87	155	155	0	Y4	w/acid
51804	YTX20CH-BS	18Ah	250 EN	150	87	161	161	1	Y5	w/acid
52020	CTZ19-S	21Ah	230 EN	183	79	171	171	0	Y10	F/A*
53037	YIX30L-BS	28Ah	370 EN	168	127	177	177	0	Y5	*w/acidDC2 -200"

Terminal

Type	Front	Side	Top
Y1			
Y2			
Y3			
Y4			
Y5			
Y6			
Y7			

Type	Front	Side	Top
Y8			
Y9			
Y10			
Y11			
Y12			
Y13			





Car manufacturers choose the best for their cars

Car manufacturers choose components that are the best fit for their cars. Besides quality, there are two other things car manufacturers look for when deciding on a battery. One is performance, the other is a very low fail rate. These factors are the reason car manufacturers choose VARTA batteries.

- VARTA Black Dynamic
- VARTA Blue Dynamic
- VARTA Silver Dynamic
- VARTA Start-Stop (EFB)
- VARTA Start – Stop Plus (AGM)



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
VARTA BLUE CAR BATTERY											
A13	BLUE DYNAMIC 540125033	054H	12V	40AH	330 EN	187 x 140 x 227	0/3	10.2	B01	B19	84
A14	BLUE DYNAMIC 540126033	054	12V	40AH	330 EN	187 x 127 x 227	0/3	10.2	B00	B19	84
A15	BLUE DYNAMIC 540127033	055	12V	40AH	330 EN	187 x 127 x 227	1/3	10.2	B00	B19	84
B18	BLUE DYNAMIC 544402044	063	12V	44AH	440 EN	207 x 175 x 175	0/1	11.47	B13	LB1	72
B31	BLUE DYNAMIC 545155033	154	12V	45AH	330 EN	238 x 129 x 227	0/3	11.7	B00	B24	72
B32	BLUE DYNAMIC 545156033	053	12V	45AH	330 EN	238 x 129 x 227	0/1	11.7	B00	B24	72
B33	BLUE DYNAMIC 545157033	155	12V	45AH	330 EN	238 x 129 x 227	1/3	11.7	B00	B24	72
B34	BLUE DYNAMIC 545158033	057	12V	45AH	330 EN	238 x 129 x 227	1/1	11.7	B00	B24	72
B36	BLUE DYNAMIC 544401042	202	12V	44AH	440 EN	175 x 175 x 190	0/1	10.46	B13	L0	72
C22	BLUE DYNAMIC 552400047	012	12V	52AH	470 EN	207 x 175 x 190	0/1	12.65	B13	L1	72
D24	BLUE DYNAMIC 560408054	027	12V	60AH	540 EN	242 x 175 x 190	0/1	14.56	B13	L2	63
D43	BLUE DYNAMIC 560127054	078	12V	60AH	540 EN	242 x 175 x 190	1/1	14.96	B13	L2	63
D47	BLUE DYNAMIC 560410054	005L	12V	60AH	540 EN	232 x 173 x 225	0/1	15.8	B00	D23	54
D48	BLUE DYNAMIC 560411054	005R	12V	60AH	540 EN	232 x 173 x 225	1/1	15.8	B00	D23	54
D59	BLUE DYNAMIC 560409054	075	12V	60AH	540 EN	242 x 175 x 175	0/1	14.11	B13	LB2	63
E11	BLUE DYNAMIC 574012068	096	12V	74AH	680 EN	278 x 175 x 190	0/1	17.33	B13	L3	48
E12	BLUE DYNAMIC 574013068	096R	12V	74AH	680 EN	278 x 175 x 190	1/1	17.33	B13	L3	48
E23	BLUE DYNAMIC 570412063	068	12V	70AH	630 EN	261 x 175 x 220	0/1	16.83	B01	D26	48
E24	BLUE DYNAMIC 570413063	069	12V	70AH	630 EN	261 x 175 x 220	1/1	16.83	B01	D26	48
E43	BLUE DYNAMIC 572409068	100	12V	72AH	680 EN	278 x 175 x 175	0/1	16.6	B13	LB3	48
F16	BLUE DYNAMIC 580400074	115	12V	80AH	740 EN	315 x 175 x 190	0/1	19.1	B13	L4	42
F17	BLUE DYNAMIC 580406074	110	12V	80AH	740 EN	315 x 175 x 175	0/1	18.82	B13	LB4	42
G3	BLUE DYNAMIC 595402080	019	12V	95AH	800 EN	353 x 175 x 190	0/1	21.91	B13	L5	36
G7	BLUE DYNAMIC 595404083	249H	12V	95AH	830 EN	306 x 173 x 225	0/1	21.7	B01	D31	39
G8	BLUE DYNAMIC 595405083	250H	12V	95AH	830 EN	306 x 173 x 225	1/1	21.7	B01	D31	39

* Specifications can vary on above options

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
VARTA AGM CAR BATTERY											
A4	START STOP AGM 605901095	020AGM	12V	105AH	950 EN	393 x 175 x 190	0/1	29.4	B13	L6	36
A5	START STOP AGM 595901085	017AGM	12V	95AH	850 EN	353 x 175 x 190	0/1	25.9	B13	L5	36
A6	START STOP AGM 580901080	115AGM	12V	80AH	800 EN	315 x 175 x 190	0/1	22.8	B13	L4	36
A7	START STOP AGM 570901076	096AGM	12V	70AH	760 EN	278 x 175 x 190	0/1	20.1	B13	L3	48
A8	START STOP AGM 560901068	027AGM	12V	60AH	680 EN	242 x 175 x 190	0/1	17.4	B13	L2	57
A9	START STOP AGM 550901054	012AGM	12V	50AH	540 EN	207 x 175 x 190	0/1	14.9	B13	L1	66
VARTA EFB CAR BATTERY											
D54	START STOP EFB 565500065	100EFB	12V	65AH	650 EN	278 x 175 x 175	0/1	18.4	B13	LB3	48
E46	START STOP EFB 575500073	110EFB	12V	75AH	730 EN	315 x 175 x 175	0/1	20.7	B13	LB4	42
N60	START STOP EFB 560500064	027EFB	12V	60AH	640 EN	242 x 175 x 190	0/1	16.5	B13	L2	63
N65	START STOP EFB 565501065	005EFB	12V	65AH	650 EN	232 x 173 x 225	0/1	18.4	B13	D23	48
N70	START STOP EFB 570500076	096EFB	12V	70AH	760 EN	278 x 175 x 190	0/1	18.9	B13	L3	48
N72	START STOP EFB 572501076	068EFB	12V	72AH	760 EN	261 x 175 x 220	0/1	20.7	B01	D26	48
N80	START STOP EFB 580500080	115EFB	12V	80AH	800 EN	315 x 175 x 190	0/1	21.3	B13	L4	42
N85	START STOP EFB 585501080	250HEFB	12V	85AH	800 EN	306 x 173 x 225	0/1	26.4	B01	D31	39
N95	START STOP EFB 595500085	019EFB	12V	95AH	850 EN	353 x 175 x 190	0/1	24.5	B13	L5	36
VARTA SILVER CAR BATTERY											
AUX1	Premium Aux Car Battery	-	12V	35AH	520 EN	212 x 175 x 160	0/1	10.8	B13	-	72
AUX14	Premium Aux Car Battery	-	12V	12AH	200 EN	150 x 87 x 146	0/Y4	4.6	-	-	200
AUX9	Premium Aux Car Battery	-	12V	9AH	130 EN	151 x 87 x 106	0/Y4	2.9	-	-	200
C30	SILVER DYNAMIC 554400053	012	12V	54AH	530 EN	207 x 175 x 190	0/1	12.8	B13	L1	72
C6	SILVER DYNAMIC 552401052	063	12V	52AH	520 EN	207 x 175 x 175	0/1	12.49	B13	LB1	72
D15	SILVER DYNAMIC 563400061	027	12V	63AH	610 EN	242 x 175 x 190	0/1	15.25	B13	L2	63
D21	SILVER DYNAMIC 561400060	075	12V	61AH	600 EN	242 x 175 x 175	0/1	14.59	B13	LB2	63
D39	SILVER DYNAMIC 563401061	078	12V	63AH	610 EN	242 x 175 x 190	1/1	14.8	B13	L2	63
E38	SILVER DYNAMIC 574402075	100	12V	74AH	750 EN	278 x 175 x 175	0/1	17.43	B13	LB3	48
E44	SILVER DYNAMIC 577400078	096	12V	77AH	780 EN	278 x 175 x 190	0/1	18.29	B13	L3	48
F18	SILVER DYNAMIC 585200080	110	12V	85AH	800 EN	315 x 175 x 175	0/1	19.62	B13	LB4	42
F19	SILVER DYNAMIC 585400080	115	12V	85AH	800 EN	315 x 175 x 190	0/1	19.76	B13	L4	42
H3	SILVER DYNAMIC 600402083	019	12V	100AH	830 EN	353 x 175 x 190	0/1	22.6	B13	L5	36
I1	SILVER DYNAMIC 610402092	020	12V	110AH	920 EN	393 x 175 x 190	0/1	25.22	B13	L6	36
VARTA BLACK CAR BATTERY											
A16	BLACK DYNAMIC 540406034	202	12V	40AH	340 EN	175 x 175 x 190	0/1	9.88	B13	L0	72
A17	BLACK DYNAMIC 541400036	063	12V	41AH	360 EN	207 x 175 x 175	0/1	10.94	B13	LB1	72
B19	BLACK DYNAMIC 545412040	012	12V	45AH	400 EN	207 x 175 x 190	0/1	11.66	B13	L1	72
B20	BLACK DYNAMIC 545413040	077	12V	45AH	400 EN	207 x 175 x 190	1/1	11.66	B13	L1	72
B23	BLACK DYNAMIC 545077030	048H	12V	45AH	300 EN	219 x 135 x 225	0/1	10.8	B01	E2	78
B24	BLACK DYNAMIC 545079030	049H	12V	45AH	300 EN	219 x 135 x 225	1/1	10.8	B01	E2	78
C11	BLACK DYNAMIC 553401050	065	12V	53AH	500 EN	242 x 175 x 175	0/1	13.31	B13	LB2	63
C14	BLACK DYNAMIC 556400048	027	12V	56AH	480 EN	242 x 175 x 190	0/1	13.91	B13	L2	63
C15	BLACK DYNAMIC 556401048	078	12V	56AH	480 EN	242 x 175 x 190	1/1	13.91	B13	L2	63
E13	BLACK DYNAMIC 570409064	096	12V	70AH	640 EN	278 x 175 x 190	0/1	16.88	B13	L3	48
E9	BLACK DYNAMIC 570144064	100	12V	70AH	640 EN	278 x 175 x 190	0/1	16.36	B13	LB3	48
F5	BLACK DYNAMIC 588403074	024	12V	88AH	740 EN	353 x 175 x 175	0/1	20.57	B13	LB5	36
F6	BLACK DYNAMIC 590122072	017	12V	90AH	720 EN	353 x 175 x 190	0/1	21.11	B13	L5	36

The no. 1 Battery supplier for the automotive industry

It's a fact, 7 out of 10 newly manufactured vehicles with start-stop technology equipped with AGM are fitted with VARTA batteries. This is because VARTA batteries stand for superior quality. The OE logo stands for "original spare part". This means that nearly all VARTA batteries are parts that come from the same production line as the original equipment.



Car and Light Commercial

Part Number	VARTA PN	Opposite Layout	Higher Capacity	Lower Capacity	Taller Case	Lower Case	Nearest Alternative	EFB Alternative	AGM Alternative
002L	B36			A16			C22		
005L	D47	D48					E23	N65	
005R	D48	D47					E24		
012	C22	B20	C30	B19		B18	B18		A9
017	F6		G3			F5	G3	N95	A5
019	G3		H3	F6			F6	N95	A5
020	I1			G3			G3		A4
024	F5				F6		F6		
027	D24	D43	D15	C14		D59	D59	N60	A8
048H	B23	B24	B32				B32		
049H	B24	B23					B34		
053	B32	B34					B23		
054	A14	A15					A13		
054H	A13						A14		
055	A15	A14							
057	B34	B32					B24		
063	B18	B20	C6	A17	C22		C22		
065	C11	D43	D59		D24		D59		
068	E23	E24						N72	
069	E24	E23							
075	D59	D43	D21	C11	D24		D24		
077	B20	B18/C22							
078	D43	C11	D39	C15			B20		
096	E11	E12	E44	E13		E43	E43	N70	A7
096R	E12	E11							
100	E43	E12	E38	E9	E11		E11	D54	
110	F17		F18	E11	F16		F16	E46	
115	F16		F19			F17	F17	N80	A6
154	B31	B33					A14		
155	B33	B31					A15		
249H	G7	G8						N85	
250H	G8	G7							
616L	H5	H4							
616R	H4	H5							

VARTA

A lot has changed in the commercial vehicle sector: legislation that sets stricter emissions standards, the number of nights spent in vehicles, more comfort equipment, and the number of additional electrical consumers e.g., parking cooler/heater. With the advanced VARTA® commercial vehicle batteries you are well-prepared for all changes – and ready to lower your TCO.



PROMOTIVE EFB



PROMOTIVE AGM

VARTA Promotive AGM

Thanks to the efficient AGM technology, the truck battery ProMotive AGM provides heavy commercial vehicles with a high degree of reliability to numerous electronic consumers. It is the only battery for unlocking the highest demanding applications and power-consuming functions including the parking cooler/heater without the battery wearing out and causing downtime. It has been developed in collaboration with the leading commercial vehicle manufacturers to support innovations that will be standard equipment for commercial vehicles in the future.

VARTA Promotive EFB

The unique VARTA ProMotive EFB is a powerful battery for commercial vehicles with high energy requirements. Its performance, combined with a high vibration resistance, ensures absolute reliability and a longer service life. This truck battery was developed to meet the increasing demands of extensive hotel functions.

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
VARTA PROMOTIVE AGM CV BATTERY											
A1	PROMOTIVE AGM 710901120	632AGM	12V	210AH	1200 EN	518 x 276 x 242	3/1	61	B00	C	12
VARTA PROMOTIVE EFB CV BATTERY											
B90	PROMOTIVE EFB 690500105	629EFB	12V	190AH	1050 EN	513 x 223 x 223	3/1	47.2	B00	B	21
C40	PROMOTIVE EFB 740500120	632EFB	12V	240AH	1200 EN	518 x 276 x 242	3/1	59.47	B00	C	12
VARTA PROMOTIVE SHD CV BATTERY											
K7	PROMOTIVE SHD 645400080	612	12V	145AH	800 EN	513 x 189 x 223	3/1	37.17	B00	A	24
K8	PROMOTIVE SHD 640400080	637	12V	140AH	800 EN	513 x 189 x 223	3/1	37.4	B03	A	24
M18	PROMOTIVE SHD 680108100	629UR	12V	180AH	1000 EN	513 x 223 x 223	3/1	46.4	B00	B	21
M9	PROMOTIVE SHD 670104100	620	12V	170AH	1000 EN	513 x 223 x 223	3/1	45.1	B03	MAC143	21
N9	PROMOTIVE SHD 725103115	632	12V	225AH	1150 EN	518 x 276 x 242	3/1	62	B00	C	12



VARTA CV Batteries



PROMOTIVE SHD



PROMOTIVE HD

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
VARTA PROMOTIVE HD CV BATTERY											
B39	PROMOTIVE HD 545200030	063	12v	45AH	300EN	210 x 175 x 175	0/1	11.6	B13	T4	72
C20	PROMOTIVE HD 555064042	027	12v	55AH	420EN	242 x 175 x 190	0/1	14.2	B13	H5	57
D33	PROMOTIVE HD 566047051	096	12v	66AH	510EN	278 x 175 x 190	0/1	16.8	B13	B13	51
F10	PROMOTIVE HD 588038068	017	12v	88AH	680EN	353 x 175 x 190	0/1	21	B13	L5	36
G1	PROMOTIVE HD 590040054	643	12V	90AH	540 EN	347 x 173 x 234	0/1	25.2	B00	LOT7	36
G2	PROMOTIVE HD 590041054	644	12V	90AH	540 EN	347 x 173 x 234	1/1	25.2	B00	LOT7	36
H16	PROMOTIVE HD 605103080	640	12V	105AH	800 EN	330 x 172 x 240	9/8	26.3	B01	C31	36
H17	PROMOTIVE HD 605102080	640	12V	105AH	800 EN	330 x 172 x 240	9/1	26.3	B01	C31	36
H4	PROMOTIVE HD 600035060	616R	12V	100AH	600 EN	413 x 175 x 220	1/1	26.74	B00	E41	36
H5	PROMOTIVE HD 600047060	616L	12V	100AH	600 EN	413 x 175 x 220	0/1	26.74	B00	E41	36
H9	PROMOTIVE HD 600123072	-	12V	100AH	720 EN	313 x 175 x 205	0/1	23.65	B03	GB28	36
I16	PROMOTIVE HD 620109076	-	12V	120AH	760 EN	510 x 175 x 235	4/1	33.9	B03	MAC120	24
I18	PROMOTIVE HD 610404068	663H	12V	110AH	680 EN	347 x 173 x 234	0/1	28.58	B01	LOT7	24
I2	PROMOTIVE HD 610013076	630	12V	110AH	760 EN	514 x 175 x 210	3/1	31.96	B03	MAC110	27
I5	PROMOTIVE HD 610048068	664	12V	110AH	680 EN	347 x 173 x 234	1/1	28.78	B00	LOT7	24
I6	PROMOTIVE HD 610050085	221	12V	110AH	850 EN	413 x 175 x 220	0/1	28.8	B03	D	24
I8	PROMOTIVE HD 620045068	637	12V	120AH	680 EN	513 x 189 x 223	3/1	33.88	B00	A	24
I9	PROMOTIVE HD 620047078	665	12V	120AH	780 EN	347 x 173 x 234	0/1	28.78	B00	LOT7	24
J1	PROMOTIVE HD 625012072	655	12V	125AH	720 EN	349 x 175 x 290	0/1	31.42	B00	WOR7	24
J10	PROMOTIVE HD 635052100	630	12V	135AH	1000 EN	514 x 175 x 210	3/1	35.15	B03	MAC110	27
J2	PROMOTIVE HD 625014072	656	12V	125AH	720 EN	349 x 175 x 290	1/1	31.42	B00	WOR7	24
J3	PROMOTIVE HD 625023000	6TN	12V	125AH	1200 EN	286 x 269 x 230	2/1	33	B00	6TN	24
J5	PROMOTIVE HD 630014068	622	12V	130AH	680 EN	514 x 218 x 208	3/1	38.03	B00	MAC130	21
J8	PROMOTIVE HD 635042068	633	12V	135AH	680 EN	360 x 253 x 240	6/1	35.2	B11	12C135	24
K11	PROMOTIVE HD 643107090	-	12V	143AH	900 EN	508 x 174 x 205	0/1	40.1	B01	MAC132	24
K4	PROMOTIVE HD 643033095	-	12V	143AH	950 EN	514 x 218 x 210	3/1	40.08	B03	MAC140	21
L2	PROMOTIVE HD 655013090	629	12V	155AH	900 EN	513 x 223 x 223	3/1	41.23	B00	B	21
L3	PROMOTIVE HD 690034120	-	12V	190AH	1200EN	513 x 223 x 223	3/1	45.7	B03	B	57
L5	PROMOTIVE HD 655104090	-	12V	155AH	900 EN	510 x 218 x 230	4/1	43.13	B03	B	21
M10	PROMOTIVE HD 690033120	623UR	12V	190AH	1200 EN	513 x 223 x 223	4/1	44.9	B03	B	21
M11	PROMOTIVE HD 654011115	612	12V	154AH	1150 EN	513 x 189 x 223	3/1	39.8	B00	A	24
M12	PROMOTIVE HD 680011140	629UR	12V	180AH	1400 EN	513 x 223 x 223	3/1	46.4	B00	B	21
M7	PROMOTIVE HD 680033110	-	12V	180AH	1100 EN	513 x 223 x 223	4/1	44.21	B03	B	21
N2	PROMOTIVE HD 700038105	625	12V	200AH	1050 EN	518 x 276 x 242	3/1	53.91	B00	C	12
N5	PROMOTIVE HD 720018115	632	12V	220AH	1150 EN	518 x 276 x 242	3/1	67	B00	C	12



Commercial Vehicles

Part Number	VARTA PN	Opposite Layout	Higher Capacity	Lower Capacity	Narrower Case	Wider Case	Nearest Alternative	EFB Alternative	AGM Alternative
612	M11		K7	I8		L2	L2		
620	M9						L2		
622	J5	M10	L2		I8	N2	L2		
623	M10	L2							
625	N2		N5		M12		M12	C40	A1
629	L2	M10	M12		I8	N2	M12	B90	
629UR	M12		M18	L2	I8	N2	L2	B90	
630	I2						I8		
632	N5		N9	N2			N2	C40	A1
637	I8		K8			L2	L2		
643	G1	G2	I18				I18		
644	G2	G1	I5				I5		
655	J1	J2							
656	J2	J1							
663H	I18	I5	I9	G1			I9		
664	I5	I18		G2			G2		
665	I9								

Delivery vehicle batteries need to supply maximum power for vehicle loading and unloading, even if the vehicle drives in urban traffic and the engine is frequently turned off. That's because the highest reserves in our delivery vehicle batteries ensure equipment such as loading cranes continually perform at their best.



VARTA Professional Deep Cycle batteries

The VARTA Professional range is purpose built to power marine craft such as electric boats, yachts and motorboats, plus all kinds of caravans and motorhomes. The more advanced these crafts and vehicles become, the more demands are placed on the battery. That's why it's important to choose the right battery designed for your needs.

That way, you get reassuringly dependable power for essentials like navigation systems, interior lighting and fridges. And also enough for those little luxuries such as satellite TV, microwaves, and even dishwashers. When all these devices are connected, the battery has to deliver exceptional performance, so it's reassuring to know that you can rely on VARTA® Professional.



Part Number	Description	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
VARTA HOBBY & PROFESSIONAL STARTER BATTERY										
A28	HOBBY LEISURE 813010000	12V	110AH	570 EN	347 x 173 x 234	0/1	28.8	B00	LOT7	24
LFS52	PROFESSIONAL STARTER 930052047	12V	52AH	470 EN	207 x 175 x 190	0/1	12.4	B13	L1	72
LFS60	PROFESSIONAL STARTER 930060054	12V	60AH	540 EN	242 x 175 x 190	0/1	15	B13	L2	63
LFS74	PROFESSIONAL STARTER 930074068	12V	74AH	680 EN	278 x 175 x 190	0/1	17.87	B13	L3	48
LFS75	HOBBY LEISURE 812071000	12V	75AH	420 EN	261 x 175 x 220	1/1	28.8	B01	D26	48
LFS95	PROFESSIONAL STARTER 930095080	12V	95AH	800 EN	353 x 175 x 190	0/1	21.32	B13	L5	36
LFS105M	PROFESSIONAL 820055080	12V	105AH	800 EN	330 x 172 x 238	8/9	23.7	B01	C31	36
LFS105N	PROFESSIONAL 820054080	12V	105AH	800 EN	330 x 172 x 238	1/9	23.7	B01	C31	36
VARTA PROFESSIONAL DUAL PURPOSE EFB BATTERY										
LED60	PROFESSIONAL DUAL PURPOSE EFB 930060064	12V	60AH	680 EN	242 x 175 x 190	0/1	16.8	B13	L2	63
LED70	PROFESSIONAL DUAL PURPOSE EFB 930070076	12V	70AH	760 EN	278 x 175 x 190	0/1	19.5	B13	L3	48
LED80	PROFESSIONAL DUAL PURPOSE EFB 930080080	12V	78AH	800 EN	314 x 175 x 190	0/1	21.6	B13	L4	42
LED95	PROFESSIONAL DUAL PURPOSE EFB 930095085	12V	95AH	850 EN	353 x 175 x 190	0/1	24.4	B13	L5	36
LED190	PROFESSIONAL DUAL PURPOSE EFB 930190105	12V	190AH	1050 EN	513 x 223 x 223	3/1	47	B00	B	21
LED240	PROFESSIONAL DUAL PURPOSE EFB 930240120	12V	240AH	1200 EN	276 x 518 x 242	3/1	56.8	B00	C	12



Part Number	Description	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
VARTA PROFESSIONAL BATTERIES										
LFD140	PROFESSIONAL 930140080	12V	140AH	800 EN	513 x 189 x 223	3/1	36.62	B00	A	24

Part Number	Description	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
VARTA PROFESSIONAL AGM DUAL PURPOSE BATTERY										
LA60	PROFESSIONAL DUAL PURPOSE AGM 840060068	12V	60AH	680 EN	242 x 175 x 190	0/1	17.5	B13	L2	57
LA70	PROFESSIONAL DUAL PURPOSE AGM 840070076	12V	70AH	760 EN	278 x 175 x 190	0/1	20.4	B13	L3	48
LA80	PROFESSIONAL DUAL PURPOSE AGM 840080080	12v	80AH	800EN	315 x 175 x 190	0/1	22.76	B13	L4	36
LA95	PROFESSIONAL DUAL PURPOSE AGM 840095085	12V	95AH	850 EN	353 x 175 x 190	0/1	26.4	B13	L5	36
LA105	PROFESSIONAL DUAL PURPOSE AGM 840105095	12V	105AH	950 EN	393 x 175 x 190	0/1	29.4	B13	L6	36
LA210	PROFESSIONAL DUAL PURPOSE AGM 840210120	12V	210AH	1200 EN	518 x 276 x 242	3/3	29.4	-	-	0

VARTA Professional Deep Cycle: Technology you can rely on

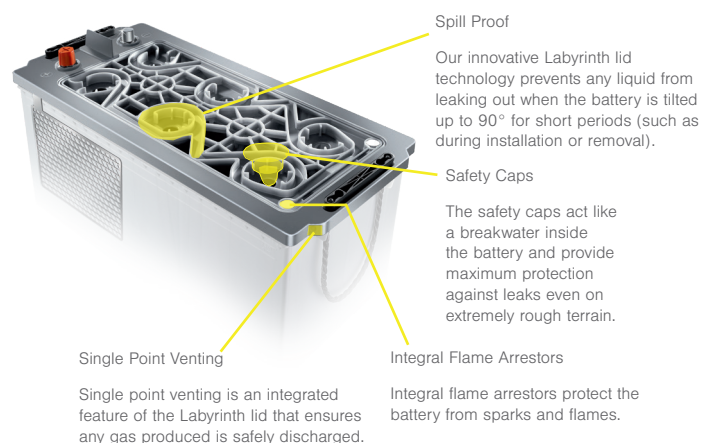
Whether large or small, our innovative VARTA Professional Deep Cycle batteries provide you with optimum performance, thanks in large part to their cyclically optimised plate design and Labyrinth lid technology.

Features:

- High cyclic durability
- Suitable for dual power use: starting and deep cycle
- Maintenance free
- Safer to use: can be tilted to 90° for short periods
- Long Lasting and durable
- Ideal for seasonal use

The importance of labyrinth lid technology:

1. The water vapour condenses on the battery lid
2. The Labyrinth lid ensures the water flows back into the battery



VARTA Powersports AGM

VARTA Powersports batteries deliver the power you need – no matter what vehicle or terrain. The battery range provides reliable starting power, exceptional supply energy and a robust construction to withstand vibrations. VARTA Powersports AGM batteries deliver maximum power even in extreme conditions.

AGM

- Precision charged, filled and permanently sealed
- Longer life time compared to conventional batteries
- Low self-discharge



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down
Powersports AGM Motorcycle Battery									
503014003	Powersports AGM Motorcycle Battery	YT4B-BS	12V	3AH	40 EN	114 x 71 x 86	0/2	1.5	B00
503903004	Powersports AGM Motorcycle Battery	YTR4A-BS	12V	3AH	30 EN	114 x 49 x 86	4/TAB	1.08	B00
503909005	Powersports AGM Active Motorcycle Battery	YTX4L	12V	3AH	50 EN	114 x 49 x 86	0/7	1.08	-
504012003	Powersports AGM Motorcycle Battery	YTX5L-BS	12V	4AH	80 EN	114 x 71 x 106	0/2	1.9	B00
504909007	Powersports AGM Active Motorcycle Battery	YTX5L	12V	4AH	80 EN	114 x 71 x 106	0/7	1.9	-
506014005	Powersports AGM Motorcycle Battery	YTX7L-BS	12V	6AH	100 EN	114 x 71 x 131	0/2	2.5	B00
506015005	Powersports AGM Motorcycle Battery	YTX7A-BS	12V	6AH	105 EN	151 x 88 x 94	1/2	2.63	B00
506909009	Powersports AGM Active Motorcycle Battery	YTX7A	12V	6AH	105 EN	150 x 87 x 95	1/7	1.9	-
506919009	Powersports AGM Active Motorcycle Battery	YTX7L	12V	6AH	100 EN	113 x 70 x 130	0/7	1.9	-
507901012	Powersports AGM Motorcycle Battery	YT7B-BS	12V	7AH	120 EN	150 x 66 x 94	1/2	2.7	B00
507902011	Powersports AGM Motorcycle Battery	TTZ7S	12V	5AH	120 EN	113 x 70 x 105	0/2	2.1	B00
508012008	Powersports AGM Motorcycle Battery	YTX9-BS	12V	8AH	135 EN	152 x 88 x 106	1/2	3.08	B00
508901015	Powersports AGM Motorcycle Battery	TTZ10S	12V	8AH	150 EN	150 x 87 x 93	1/2	3.2	B00
508909013	Powersports AGM Active Motorcycle Battery	YTX9	12V	8AH	135 EN	150 x 87 x 93	1/7	3.2	-
509901020	Powersports AGM Motorcycle Battery	TTZ12S	12V	9AH	200 EN	150 x 87 x 110	1/2	3.7	B00
510012009	Powersports AGM Motorcycle Battery	YTX12-BS	12V	10AH	150 EN	152 x 88 x 131	1/2	4.15	B00
510909017	Powersports AGM Active Motorcycle Battery	YTX12	12V	10AH	170 EN	150 x 87 x 130	1/7	3.2	-
511902023	Powersports AGM Motorcycle Battery	TTZ14S	12V	11AH	230 EN	150 x 87 x 110	1/2	3.9	B00
512901019	Powersports AGM Motorcycle Battery	YT12B-BS	12V	12AH	215 EN	151 x 70 x 131	1/2	4	B00
512903013	Powersports AGM Motorcycle Battery	YT14B-BS	12V	12AH	190 EN	152 x 70 x 150	1/2	6.4	B00
512908021	Powersports High Performance AGM Motorcycle Battery	YTX14AH-BS	12V	12AH	320 EN	175 x 87 x 154	1/7	6.4	-
512909020	Powersports AGM Active Motorcycle Battery	YTX14	12V	12AH	200 EN	150 x 87 x 146	1/7	6.4	-
512918021	Powersports High Performance AGM Motorcycle Battery	YTX14AHL-BS	12V	12AH	210 EN	134 x 89 x 166	0/7	6.4	-
514901022	Powersports AGM Motorcycle Battery	YTX16-BS-1	12V	14AH	210 EN	150 x 87 x 161	1/2	6.4	B00
514902022	Powersports AGM Motorcycle Battery	YTX16-BS	12V	14AH	210 EN	150 x 87 x 161	1/2	6.4	B00
518902026	Powersports AGM Motorcycle Battery	YTX20-BS	12V	18AH	250 EN	177 x 88 x 156	1/2	6.5	B00
518908027	Powersports High Performance AGM Motorcycle Battery	YTX20CH-BS	12V	18AH	290 EN	178 x 102 x 175	1/7	6.5	-
518908032	Powersports High Performance AGM Motorcycle Battery	YTX20H-BS	12V	18AH	320 EN	178 x 87 x 154	1/7	6.5	-
518918032	Powersports High Performance AGM Motorcycle Battery	YTX20HL-BS	12V	18AH	320 EN	150 x 87 x 161	0/7	6.5	-
521908034	Powersports High Performance AGM Motorcycle Battery	YTX24HL-BS	12V	21AH	340 EN	205 x 90 x 184	0/7	6.5	-
530905045	Powersports High Performance AGM Motorcycle Battery	YIX30L-BS	12V	30AH	450 EN	166 x 127 x 175	0/7	10.15	B00

Powersports Freshpack

VARTA Powersports Freshpack batteries provide reliable starting power in hot and cold weather.

Reliable starting power

- Made for standard motorcycles, scooters and quad bikes
- Dry-charged battery delivered in Freshpack version (with acid pack)
- Reliable starting power in hot and cold weather



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down
004014001	Freshpack Motorcycle Battery	6N4-2A-4	6V	4AH	10 EN	71 x 71 x 96	0/2	0.74	B00
006012003	Freshpack Motorcycle Battery	6N6-3B-1	6V	3AH	30 EN	100 x 57 x 110	0/2	1.07	B00
008011004	Freshpack Motorcycle Battery	B49-6	6V	4AH	40 EN	91 x 83 x 160	1/2	2.1	B00
011014008	Freshpack Motorcycle Battery	6N11A-3A-1	6V	11AH	80 EN	122 x 61 x 135	7/2	2.06	B00
503012003	Freshpack Motorcycle Battery	YB3L-A	12V	3AH	30 EN	100 x 58 x 112	0/2	1.41	B00
504011005	Freshpack Motorcycle Battery	YB4L-B	12V	4AH	50 EN	121 x 71 x 93	0/2	1.52	B00
506011006	Freshpack Motorcycle Battery	12N5.5-3B	12V	6AH	55 EN	136 x 61 x 131	0/2	2.14	B00
506012006	Freshpack Motorcycle Battery	12N5.5A-3B	12V	6AH	58 EN	104 x 91 x 114	0/2	2.16	B00
507012007	Freshpack Motorcycle Battery	YB7L-B	12V	7AH	74 EN	136 x 76 x 134	0/2	2.71	B00
507013007	Freshpack Motorcycle Battery	12N7-4A	12V	7AH	74 EN	137 x 75 x 134	1/2	2.86	B00
508013011	Freshpack Motorcycle Battery	YB7-A	12V	8AH	110 EN	137 x 76 x 134	1/2	2.83	B00
509014009	Freshpack Motorcycle Battery	YB9-B	12V	9AH	85 EN	136 x 76 x 134	0/2	3.04	B00
509015009	Freshpack Motorcycle Battery	YB9L-B	12V	9AH	85 EN	136 x 76 x 140	0/2	3.04	B00
511012015	Freshpack Motorcycle Battery	YB10L-A2	12V	11AH	150 EN	135 x 91 x 146	0/2	4.03	B00
511013015	Freshpack Motorcycle Battery	YB10L-B2	12V	11AH	150 EN	136 x 91 x 146	0/2	4.03	B00
512011016	Freshpack Motorcycle Battery	YB12A-A	12V	12AH	160 EN	136 x 82 x 161	1/2	4.02	B00
512013016	Freshpack Motorcycle Battery	YB12AL-A2	12V	12AH	160 EN	136 x 82 x 161	0/2	4.07	B00
512015016	Freshpack Motorcycle Battery	YB12A-B	12V	12AH	160 EN	136 x 82 x 162	1/2	4.02	B00
514011019	Freshpack Motorcycle Battery	YB14L-A2	12V	14AH	190 EN	136 x 91 x 166	0/2	4.51	B00
514012019	Freshpack Motorcycle Battery	YB14-A2	12V	14AH	190 EN	136 x 91 x 168	1/2	4.53	B00
514013019	Freshpack Motorcycle Battery	YB14L-B2	12V	14AH	190 EN	136 x 91 x 168	0/2	4.51	B00
514014019	Freshpack Motorcycle Battery	YB14-B2	12V	14AH	190 EN	134 x 89 x 164	1/2	4.61	B00
514401019	Freshpack Motorcycle Battery	YB14A-A2	12V	14AH	190 EN	134 x 89 x 176	1/6	5.25	-
516015020	Freshpack Motorcycle Battery	YB16B-A	12V	16AH	200 EN	160 x 90 x 161	1/2	5.17	B00
516016018	Freshpack Motorcycle Battery	YB16AL-A2	12V	16AH	180 EN	205 x 72 x 164	0/2	5.25	B00
518014010	Freshpack Motorcycle Battery	12N20AH	12V	18AH	100 EN	186 x 82 x 171	0/2	5.69	B00
519011024	Freshpack Motorcycle Battery	YB16L-B	12V	19AH	240 EN	176 x 101 x 156	0/2	6.11	B00
519012024	Freshpack Motorcycle Battery	YB16-B	12V	19AH	240 EN	176 x 101 x 156	1/2	6.1	B00
519013010	Freshpack Motorcycle Battery	51913	12V	19AH	100 EN	186 x 82 x 171	0/2	5.69	B00
519014024	Freshpack Motorcycle Battery	YB16CL-B	12V	19AH	240 EN	176 x 101 x 176	0/2	6.21	B00
520012026	Freshpack Motorcycle Battery	Y50-N18L-A2	12V	20AH	260 EN	207 x 92 x 164	0/2	6.4	B00
520016026	Freshpack Motorcycle Battery	SY50-N18L-AT	12V	20AH	260 EN	206 x 92 x 160	0/2	6.19	B00
524101020	Freshpack Motorcycle Battery	12N24-4	12V	24AH	200 EN	186 x 125 x 178	1/2	8.52	B00
530030030	Freshpack Motorcycle Battery	YB60-N24L-A	12V	30AH	180 EN	196 x 131 x 183	0/2	8.55	B00
530400030	Freshpack Motorcycle Battery	YB30L-B	12V	30AH	300 EN	168 x 132 x 176	0/2	8.98	B00



Exide Classic Range

- Updated Top Label - 'CAUTION' label to avoid conventional batteries being installed in Start-Stop vehicles.
- Economy solution.
- Ideal for cars with basic power needs
- 3DX grid technology.



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE Classic Battery											
EC400	Classic Battery - W020RE	202	12V	40AH	320 EN	175 x 175 x 190	0/1	10.4	B13	L0	96
EC412	Classic Battery - W063RE	063	12V	41AH	370 EN	207 x 175 x 175	0/1	10.6	B13	LB1	72
EC440	Classic Battery - W079RE	012	12V	44AH	360 EN	207 x 175 x 190	0/1	11.2	B13	L01	72
EC542	Classic Battery - W065RE	065	12V	54AH	500 EN	242 x 175 x 175	0/1	12.9	B13	LB2	60
EC550	Classic Battery - W027RE	027	12V	55AH	460 EN	242 x 175 x 190	0/1	13.4	B13	L02	60
EC605	Classic Battery - W031RE	069	12V	60AH	440 EN	270 x 173 x 222	1/1	15.5	B01	D26	54
EC652	Classic Battery - W096RE	100	12V	65AH	540 EN	278 x 175 x 175	0/1	14.5	B13	LB3	51
EC700	Classic Battery - W067RE	096	12V	70AH	640 EN	278 x 175 x 190	0/1	16.3	B13	L03	51
EC900	Classic Battery - W017RE	017	12V	90AH	720 EN	353 x 175 x 190	0/1	20.4	B13	L05	36
EC904	Classic Battery - W249RE	249H	12V	90AH	680 EN	306 x 173 x 222	0/1	20.1	B01	D31	42
EC905	Classic Battery - W250RE	250H	12V	90AH	680 EN	306 x 173 x 222	1/1	20.1	B01	D31	42
EXIDE Auxiliary Battery											
EK091	Auxiliary Battery - EK091	-	12V	9AH	120 EN	150 x 90 x 105	1/M12	3.1	B00	C54	140
EK111	Auxiliary Battery - EK111	-	12V	11AH	150 EN	150 x 90 x 130	1/M04	3.9	B00	C55	140
EK131	Auxiliary Battery - EK131	-	12V	12AH	200 EN	150 x 90 x 145	1/M04	4.5	B00	C56	140
EK143	Auxiliary Battery - EK143	-	12V	14AH	80 EN	150 x 100 x 100	3/Screwed/Lug	4.2	B00	C76	140
EK151	Auxiliary Battery - EK151	-	12V	15AH	200 EN	150 x 90 x 145	1/Small taper post (JLR)	4.8	B00	C56	140

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE Premium Battery											
EA406	Premium Battery - W054TE	054H	12 V	40	350	187 x 127 x 220	0/JIS Small post B	9.3	B1	B19	90
EA456	Premium Battery - W154TE	154	12 V	45	390	237 x 127 x 227	0/JIS Small post B	12.5	B1	B24	72
EA654	Premium Battery - W005TE	005L	12 V	65	580	230 x 173 x 222	0/EN taper post	16.8	Korean B1	D23	60
EA754	Premium Battery - W030TE	068	12 V	75	630	270 x 173 x 222	0/EN taper post	18.6	Korean B1+B6	D26	54
EA755	Premium Battery - W031TE	069	12 V	75	630	270 x 173 x 222	1/EN taper post	18.6	Korean B1+B6	D26	54
EA954	Premium Battery - W249TE	249H	12 V	95	800	306 x 173 x 222	1/EN taper post	23.6	Korean B1	D31	42
EA955	Premium Battery - W250TE	250H	12 V	95	800	306 x 173 x 222	0/EN taper post	23.6	Korean B1	D31	42
EA530	Premium Battery - W079TE	012	12 V	53	540	207 x 175 x 190	0/EN taper post	12.8	B13	L01	72
EA640	Premium Battery - W027TE	027	12 V	64	640	242 x 175 x 190	0/EN taper post	14.9	B13	L02	60
EA770	Premium Battery - W067TE	096	12 V	77	760	278 x 175 x 190	0/EN taper post	17.5	B13	L03	51
EA900	Premium Battery - W115TE	115	12 V	90	720	315 x 175 x 190	0/EN taper post	19.5	B13	L04	42
EA1000	Premium Battery - W017TE	019	12 V	100	900	353 x 175 x 190	0/EN taper post	22.6	B13	L05	36
EA472	Premium Battery - W063TE	063	12 V	47	450	207 x 175 x 175	0/EN taper post	11.4	B13	LB1	72
EA612	Premium Battery - W075TE	075	12 V	61	600	242 x 175 x 175	0/EN taper post	13.9	B13	LB2	60
EA722	Premium Battery - W096TE	100	12 V	72	720	278 x 175 x 175	0/EN taper post	15.8	B13	LB3	51
EA852	Premium Battery - W110TE	110	12 V	85	800	315 x 175 x 175	0/EN taper post	18.5	B13	LB4	42
EA1050	Premium Battery - EA1050	115H	12 V	105	850	315 x 175 x 205	0/EN taper post	23.1	B13	LH4	42



Exide Excell Range

- Updated Top Label - 'CAUTION' label to avoid conventional batteries being installed in Start-Stop vehicles.
- 15% extra starting power.
- All-round battery for standard use.
- 3DX grid technology.
- Original equipment experience inside.

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE Premium Battery											
EB356	Excell Battery - W054SE	054	12V	35AH	240 EN	187 x 127 x 220	0/3	10	B00	B19	90
EB357	Excell Battery - W055SE	055	12V	35AH	240 EN	187 x 127 x 220	1/3	10	B00	B19	90
EB440	Excell Battery - W202SE	202	12V	44AH	400 EN	175 x 175 x 190	0/1	11.1	B13	L0	72
EB442	Excell Battery - W063SE	063	12V	44AH	420 EN	207 x 175 x 175	0/1	11.97	B13	LB1	72
EB450	Excell Battery - W048SE	048H	12V	45AH	330 EN	220 x 135 x 225	0/1	10.8	B01	E2	87
EB451	Excell Battery - W049SE	049H	12V	45AH	330 EN	220 x 135 x 225	1/1	10.9	B01	E2	87
EB454	Excell Battery - W044SE	053	12V	45AH	330 EN	237 x 127 x 227	0/1	11.7	B00	B24	87
EB455	Excell Battery - W043SE	057	12V	45AH	330 EN	237 x 127 x 227	1/1	11.4	B00	B24	87
EB456	Excell Battery - W154SE	154	12V	45AH	330 EN	237 x 127 x 227	0/3	11.3	B00	B24	87
EB457	Excell Battery - W155SE	155	12V	45AH	330 EN	237 x 127 x 227	1/3	11.3	B00	B24	87
EB500	Excell Battery - W079SE	012	12V	50AH	450 EN	207 x 175 x 190	0/1	12.1	B13	L01	72
EB501	Excell Battery - W077SE	077	12V	50AH	450 EN	207 x 175 x 190	1/1	12.2	B13	L01	72
EB504	Excell Battery - W008SE	004L	12V	50AH	360 EN	200 x 173 x 222	0/1	13	B01	D20	72
EB505	Excell Battery - W004SE	004R	12V	50AH	360 EN	200 x 173 x 222	1/1	13	B01	D20	72
EB558	Excell Battery - WG75SE	75-550	12V	55AH	620 EN	230 x 180 x 186	1/SIDE	15.2	B09	75	72
EB602	Excell Battery - W075SE	075	12V	60AH	540 EN	242 x 175 x 175	0/1	14.72	B13	LB2	60
EB604	Excell Battery - W005SE	005L	12V	60AH	480 EN	230 x 173 x 222	0/1	15	B01	D23	60
EB605	Excell Battery - W002SE	005R	12V	60AH	480 EN	230 x 173 x 222	1/1	15	B01	D23	60
EB620	Excell Battery - W027SE	027	12V	62AH	540 EN	242 x 175 x 190	0/1	15.09	B13	L02	60
EB621	Excell Battery - W078SE	078	12V	62AH	540 EN	242 x 175 x 190	1/1	14.4	B13	L02	60
EB704	Excell Battery - W030SE	068	12V	70AH	540 EN	270 x 173 x 222	0/1	16.6	B01	D26	54
EB705	Excell Battery - W031SE	069	12V	70AH	540 EN	270 x 173 x 222	1/1	16.6	B01	D26	54
EB708	Excell Battery - WG78SE	78-630	12V	70AH	740 EN	260 x 180 x 186	1/SIDE	19.7	B07	78	66
EB712	Excell Battery - W096SE	100	12V	71AH	670 EN	278 x 175 x 175	0/1	15.3	B13	LB3	64
EB740	Excell Battery - W067SE	096	12V	74AH	680 EN	278 x 175 x 190	0/1	17.68	B13	L03	51
EB741	Excell Battery - W082SE	096R	12V	74AH	680 EN	278 x 175 x 190	1/1	16.6	B13	L03	51
EB800	Excell Battery - W115SE	115	12V	80AH	640 EN	315 x 175 x 190	0/1	19	B13	L04	42
EB802	Excell Battery - W110SE	110	12V	80AH	700 EN	315 x 175 x 175	0/1	17.8	B13	LB4	42
EB852	Excell Battery - W112SE	024	12V	85AH	760 EN	353 x 175 x 175	0/1	19.6	B13	LB5	36
EB950	Excell Battery - W017SE	019	12V	95AH	800 EN	353 x 175 x 190	0/1	21.6	B13	L05	36
EB954	Excell Battery - W249SE	249H	12V	95AH	720 EN	306 x 173 x 222	0/1	21	B01	D31	42
EB955	Excell Battery - W250SE	250H	12V	95AH	720 EN	306 x 173 x 222	1/1	21	B01	D31	42
EB1100	Excell Battery - W020SE	020	12V	110AH	800 EN	392 x 175 x 190	0/1	26.3	B13	L06	36



AGM



EFB



PREMIUM



EXCELL



CLASSIC

Trusted by leading carmakers

Exide has been supplying lead-acid batteries to carmakers for over 100 years. We design the most technically advanced products in the industry, and were the first to introduce Start-Stop technology to the European market in 2004. Carmakers trust the quality of our products and our commitment to excellence in manufacturing. 70% of European car brands work with Exide batteries.



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE Micro-Hybrid - AGM Battery											
EK508	Micro-Hybrid - AGM Battery	-	12V	50AH	800 EN	260 x 173 x 206	9/1	17.5	B7	G34	54
EK620	Micro-Hybrid - AGM Battery	027AGM	12V	62AH	680 EN	242 x 175 x 190	0/1	17.9	B13	L02	60
EK720	Micro-Hybrid - AGM Battery	096AGM	12V	72AH	760 EN	278 x 175 x 190	0/1	20.6	B13	L03	51
EK820	Micro-Hybrid - AGM Battery	115AGM	12V	82AH	800 EN	315 x 175 x 190	0/1	23.3	B13	L04	42
EK960	Micro-Hybrid - AGM Battery	017AGM	12V	96AH	850 EN	353 x 175 x 190	0/1	26.1	B13	L05	36
EK1060	Micro-Hybrid - AGM Battery	020AGM	12V	106AH	950 EN	392 x 175 x 190	0/1	29	B13	L06	36
EXIDE Micro-Hybrid - EFB Battery											
EL550	Micro-Hybrid - EFB Battery	012EFB	12V	55AH	480 EN	207 x 175 x 190	0/1	13.9	B13	L01	72
EL600	Micro-Hybrid - EFB Battery	027EFB	12V	60AH	640 EN	242 x 175 x 190	0/1	17	B13	L02	60
EL604	Micro-Hybrid - EFB Battery	005LEFB	12V	60AH	520 EN	230 x 173 x 222	0/1	16.2	B0	D23	60
EL605	Micro-Hybrid - EFB Battery	005REFB	12V	60AH	520 EN	230 x 173 x 222	1/1	16.2	B0	D23	60
EL652	Micro-Hybrid - EFB Battery	100EFB	12V	65AH	650 EN	278 x 175 x 175	0/1	16.2	B13	LB3	51
EL700	Micro-Hybrid - EFB Battery	096EFB	12V	70AH	720 EN	278 x 175 x 190	0/1	20.1	B13	L03	51
EL752	Micro-Hybrid - EFB Battery	110EFB	12V	75AH	730 EN	315 x 175 x 175	0/1	18.6	B13	LB4	42
EL754	Micro-Hybrid - EFB Battery	068EFB	12V	75AH	750 EN	270 x 173 x 222	0/1	19	B0	D26	0
EL800	Micro-Hybrid - EFB Battery	115EFB	12V	80AH	720 EN	315 x 175 x 190	0/1	22.1	B13	L04	36
EL954	Micro-Hybrid - EFB Battery	249EFB	12V	80AH	782 EN	306 x 173 x 222	0/1	21.6	Korean B1	D31	42
EL955	Micro-Hybrid - EFB Battery	250EFB	12V	80AH	782 EN	306 x 173 x 222	1/1	21.6	Korean B1	D31	42
EL1000	Micro-Hybrid - EFB Battery	017EFB	12V	100AH	900 EN	353 x 175 x 190	0/1	25.5	B13	L05	36
EL1050	Micro-Hybrid - EFB Battery	020EFB	12V	105AH	950 EN	392 x 175 x 190	0/1	27.2	B13	L06	36

* Specifications can vary on above options

Car and Light Commercial

Type	Part Number	Opposite Layout	Higher Capacity	Lower Capacity	Taller Case	Lower Case	Nearest Alternative	EFB Alternative	AGM Alternative
002L	EC400						EB500		
004L	EB504	EB505					EB604		
004R	EB505	EB504					EB605		
005L	EB604	EB605	EA654	EB505			EB704	EL604	
005R	EB605	EB604		EB604			EB705		
012	EB500	EB501	EA530	EC440		EB442	EB442		
017	EC900		EB950				EB950	EL1000	EK950
019	EB950		EA1000	EC900			EC900	EL1000	EK950
020	EB1100			EB950			EB950	EL1050	EK1050
027	EB620	EB621	EA640	EC550		EB602	EB602	EL600	EK600
048H	EB450	EB451	EB454				EB454		
049H	EB451	EB450					EB455		
053	EB454	EB455					EB450		
054	EB356	EB357					EA406		
054H	EA406						EB356		
055	EB357	EB356							
057	EB455	EB454					EB451		
063	EB442	EB501	EA472	EC412	EB500		EB500		
065	EC542	EB621	EB602		EB620		EB602		
068	EB704	EB705	EA754					EL754	
069	EB705	EB704	EA755	EC605					
075	EB602	EB621	EA612	EC542	EB620		EB620		
077	EB501	EB442/EB500							
078	EB621	EC542		EB501			EB501		
096	EB740	EB741	EA770	EC700		EB712	EB712	EL700	EK700
096R	EB741	EB740							
100	EB712	EB741	EA722	EC652	EB740		EB740	EL652	
110	EB802		EA852		EB800		EB800	EL752	
115	EB800		EA900			EB802	EB802	EL800	EK800
154	EB456	EB457	EA456				EB356		
155	EB457	EB456					EB357		
249H	EB954	EB955	EA954	EC904				EL954	
250H	EB955	EB954	EA955	EC905					
616L	EG1008	EG1109							
616R	EG1109	EG1008							



Power PRO - Agri & Construction



- Superior cranking power (more plates and active material to maximize grid surface)
- Robust design with hot melt fixation of plate groups
- Wide range including special types
- Superior power
- True OE Agri or Construction fit (original part)
- Maintenance free - no topping up



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE POWER Pro Agri & Construction Battery											
EJ1000	POWER Pro Agri & Construction Battery	019	12V	100AH	850	353 x 175 x 190	0/1	21.8	B13	L05	36
EJ1100	POWER Pro Agri & Construction Battery	663	12V	110AH	900	349 x 175 x 235	0/1	28.3	B00	LOT7	36
EJ1102	POWER Pro Agri & Construction Battery	663H	12V	110AH	900	349 x 175 x 235	0/1	28.3	B01	LOT7	36
EJ110B	POWER Pro Agri & Construction Battery	640	12V	110AH	950	330 x 173 x 240	9/SAE A taper post	26.1	B00	C31	54
EJ1523	POWER Pro Agri & Construction Battery	612	12V	152AH	1130	513 x 189 x 223	3/1	40.3	B00	A	24
EJ165A	POWER Pro Agri & Construction Battery	-	12V	165AH	850	354 x 241 x 285	6/1	45.3	B00	D67	18
EJ1723	POWER Pro Agri & Construction Battery	629UR	12V	172AH	1390	513 x 223 x 223	3/1	48.8	B00	B	21
EJ1805	POWER Pro Agri & Construction Battery	620	12V	180AH	1000	510 x 218 x 225	3/1	43	B03	MAC143	21
EJ2353	POWER Pro Agri & Construction Battery	632	12V	235AH	1450	518 x 274 x 240	3/1	59.7	B00	C	18

Exide has been supplying lead-acid batteries to car and truck makers for more than 130 years. We design the most technically advanced products in the industry, and were the first to introduce High Vibration Resistant (HVR) batteries for trucks back in 2008. Vehicle manufacturers trust the quality of our products and our commitment to excellence in manufacturing.



StrongPRO EFB+ Strong, stronger, EFB+.

Thanks to the efficient AGM technology, the truck battery ProMotive AGM provides heavy commercial vehicles with a high degree of reliability to numerous electronic consumers. It is the only battery for unlocking the highest demanding applications and power-consuming functions including the parking cooler/heater without the battery wearing out and causing downtime. It has been developed in collaboration with the leading commercial vehicle manufacturers to support innovations that will be standard equipment for commercial vehicles in the future.

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE ENDURANCE +Pro Gel Battery											
ED2103T	Endurance +Pro Gel Battery	632	12 V	210	800	518 x 274 x 240	3/1	66	B00	C	18
ED2103	Endurance +Pro Gel Battery - W625GEL	632	12V	210	1030	518 x 274 x 240	3/1	63.5	B00	C	18
EXIDE ENDURANCE Pro EFB Battery											
EX1803	ENDURANCE Pro EFB Battery	629UR	12V	180	1000	513 x 223 x 223	3/1	46.1	B0	B	21
EX2253	ENDURANCE Pro EFB Battery	632	12V	225	1150	518 x 274 x 240	3/1	60.1	B0	C	18
EXIDE STRONG Pro EFB+ Battery											
EE1403	STRONG Pro Battery - W627TE	612	12V	140	800	513 x 189 x 223	3/1	38.2	B00	A	24
EE1853	STRONG Pro Battery - W629TE	629UR	12V	185	1100	513 x 223 x 223	3/1	46.4	B00	B	21
EE2353	STRONG Pro Battery - W625TE	632	12V	235	1200	518 x 279 x 240	3/1	56.8	B00	C	18
EXIDE POWER Pro Battery											
EF1202	POWER Pro Battery - W667SX	663H	12V	120	870	349 x 175 x 220	0/1	27.5	B01	LOT7	36
EF1420	POWER Pro Battery - W657SX	655	12V	142	850	349 x 175 x 285	0/1	35.1	B00	WOR7	24
EF1421	POWER Pro Battery - W658SX	656	12V	142	850	349 x 175 x 285	1/1	35.1	B00	WOR7	24
EF1453	POWER Pro Battery - W627SX	612	12V	145	900	513 x 189 x 223	3/1	35.8	B00	A	24
EF1853	POWER Pro Battery - W629SX	629UR	12V	185	1150	513 x 223 x 223	3/1	43.9	B00	B	21
EF2353	POWER Pro Battery - W625SX	632	12V	235	1300	518 x 279 x 240	3/1	55.6	B00	C	18
EXIDE START Pro Battery											
EG1008	START Pro Battery - W221SE	616L	12V	100AH	680	413 x 175 x 220	0/1	25.6	B03	E41	30
EG1100	START Pro Battery - W663SE	663	12V	110AH	750	349 x 175 x 235	0/1	26.1	B00	LOT7	36
EG1101	START Pro Battery - W664SE	664	12V	110AH	750	349 x 175 x 235	1/1	26.1	B00	LOT7	36
EG1102	START Pro Battery - W667SE	663H	12V	110AH	750	349 x 175 x 235	0/1	26.1	B01	LOT7	36
EG1109	START Pro Battery - W616SE	616R	12V	100AH	800	413 x 175 x 220	1/1	24.11	B00	E41	30
EG110B	START Pro Battery - WG31SE	640	12V	110AH	950	330 x 173 x 240	9/SAE A taper post	27.4	B00	C31	54
EG1203	START Pro Battery - W627RE	S637	12V	120AH	680	513 x 189 x 223	3/1	32.5	B00	A	24
EG1250	START Pro Battery - W655SE	655	12V	125AH	760	349 x 175 x 285	0/1	34	B00	WOR7	24
EG1251	START Pro Battery - W656SE	656	12V	125AH	760	349 x 175 x 285	1/1	34	B00	WOR7	24
EG1353	START Pro Battery - W622SE	622	12V	135AH	1000	514 x 218 x 210	3/1	39.8	B00	DB9	21
EG1355	START Pro Battery - W617SE	630	12V	135AH	1000	514 x 175 x 210	3/1	36	B03	MAC110	24
EG1402	START Pro Battery - W638SE	638	12V	140AH	900	508 x 175 x 205	0/1	33.8	B01	MAC132	24
EG1403	START Pro Battery - W627SE	612	12V	140AH	800	513 x 189 x 223	3/1	34.1	B00	A	24
EG1406	START Pro Battery - W615SE-OPP	630	12V	140AH	800	510 x 175 x 225	4/1	33.5	B03	MAC110	24
EG145A	START Pro Battery - W633SE	633	12V	145AH	1000	360 x 253 x 240	6/1	38.1	B00	12C135	21
EG1553	START Pro Battery - W621RE	629	12V	155AH	900	513 x 223 x 223	3/1	40.2	B00	B	21
EG1705	START Pro Battery - W620SE	620	12V	170AH	950	514 x 218 x 210	3/1	42.5	B03	DB9	21
EG1803	START Pro Battery - W629SE	629UR	12V	180AH	1000	513 x 223 x 223	3/1	42.8	B00	B	21
EG1806	START Pro Battery - W620SE-OPP	620	12V	180AH	1000	510 x 218 x 225	4/1	43	B03	MAC143	21
EG2253	START Pro Battery - W625SE	625	12V	225AH	1200	518 x 279 x 240	3/1	54.9	B00	C	18
EG2254	START Pro Battery - W624SE	624	12V	225AH	1200	518 x 279 x 240	4/1	54.9	B00	C	18

Commercial Vehicles

Type	Part Number	Opposite Layout	Higher Capacity	Lower Capacity	Narrower Case	Wider Case	Nearest Alternative	EFB Alternative	GEL Alternative
612	EF1453		EE1403	EG1203		EG1553	EG1553	EE1403	
620	EG1705						EG1553		
622	EG1353		EG1553		EG1203	EG2253	EG1553		
624	EG2254	EG2253							
625	EG2253	EG2254	EF2353		EF1853		EF1853	EE2353	ED2103
629	EG1553		EG1803		EG1203	EG2253	EF1853		
629UR	EF1853		EE1853	EG1553	EG1203	EG2253	EG1553	EE1853	
630	EG1355						EG1203		
632	ED2103			EG2253			EG2253	EE2353	ED2103
637	EG1203		EF1453			EG1553	EG1553		
643	EG1100	EG1101	EG1101				EG1100		
644	EG1101	EG1100	EG1100				EG1101		
655	EF1420	EF1421							
656	EF1421	EF1420							
663	EG1100	EG1101							
664	EG1101	EG1100							



Dual AGM

AGM flat or orbital with VRLA venting

- Extra start & supply
- Absolutely maintenance free
- Suitable for long resting periods
- Faster recharge
- Up to 50% faster recharging
- High inclination
- High vibration & tilt resistant
- Internal gas recombination
- No location constraints (cabin safe)
- Safe and clean (spark & spill-proof)



Dual EFB

Enhanced Flooded Battery

- Extra start & supply
- Maintenance free
- Maximum charge acceptance



Dual

Standard flooded with central degassing

- Start & supply
- Low maintenance
- Low gas emission
- To be installed in special container
- Upright mount
- Medium vibration & tilt resistant
- Top indicator for electrolyte & charge inspection (except ER660)



Part Number	Description	NCC Rating	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE STARTING AGM - Superior Battery											
EM1000	STARTING AGM - Superior Battery - EM1000	-	12V	50AH	800 EN	260 x 173 x 206	1/SAE M 3/8"- 5/16" taper&stud	17.9	B07	34	54
EM960	STARTING AGM - Superior Battery - EM960	-	12V	100AH	800 EN	330 x 173 x 240	1/SAE M 3/8" taper&stud	17.9	B0	34	54
EXIDE START - Better Battery											
EN1100	START - Better Battery - EN1100	-	12V	180AH	1000 EN	513 x 223 x 223	3/1	42.8	B00	B	21
EN500	START - Better Battery - EN500	-	12V	50AH	450 EN	207 x 175 x 190	0/1	12.2	B13	L01	72
EN600	START - Better Battery - EN600	-	12V	62AH	540 EN	242 x 175 x 190	0/1	14.2	B13	L02	60
EN750	START - Better Battery - EN750	-	12V	74AH	680 EN	278 x 175 x 190	0/1	16.7	B13	L03	51
EN850	START - Better Battery - EN850	-	12V	110AH	750 EN	349 x 175 x 235	1/1	26.1	B00	LOT7	36
EN900	START - Better Battery - EN900	-	12V	140AH	800 EN	513 x 189 x 223	3/1	34.1	B00	A	24
EXIDE DUAL AGM - Superior Battery											
EP1200	DUAL AGM - Superior Battery - EP1200	B	12V	140AH	700 EN	513 x 189 x 223	3/1	40.5	B00	A	24
EP1500	DUAL AGM - Superior Battery - EP1500	B	12V	180AH	900 EN	513 x 223 x 223	3/1	50	B00	B	21
EP2100	DUAL AGM - Superior Battery - EP2100	B	12V	240AH	1200 EN	518 x 279 x 240	3/1	70	B00	C	18
EP450	DUAL AGM - Superior Battery - EP450	-	12V	50AH	750 EN	260 x 173 x 206	1/SAE M 3/8"- 5/16" taper&stud 1/ SAE M 3/8"- 5/16" taper&stud	18.6	B07	34	54
EP500	DUAL AGM - Superior Battery - EP500	C	12V	60AH	680 EN	242 x 175 x 190	0/1	17.8	B13	L02	60
EP600	DUAL AGM - Superior Battery - EP600	C	12V	70AH	760 EN	278 x 175 x 190	0/1	20.6	B13	L03	51
EP800	DUAL AGM - Superior Battery - EP800	A	12V	95AH	850 EN	353 x 175 x 190	0/1	25.9	B13	L05	36
EP900	DUAL AGM - Superior Battery - EP900	A	12V	100AH	720 EN	330 x 173 x 240	1/SAE M 3/8"- 5/16" taper&stud	32.2	B00	C31	24
EXIDE DUAL EFB - Superior Battery											
EZ600	Dual - EFB Superior Battery - EZ600	C	12V	70AH	720 EN	278 x 175 x 190	0/1	19.3	B13	L03	51
EZ850	Dual - EFB Superior Battery - EZ850	B	12V	100AH	900 EN	353 x 175 x 190	0/1	27.2	B13	L05	36
EXIDE DUAL - Better Battery											
ER350	EXIDE DUAL - Better Battery - ER350	C	12V	80AH	510 EN	270x173x222	1/1	17.8	B01	D26	54
ER450	EXIDE DUAL - Better Battery - ER450	B	12V	95AH	650 EN	306x173x222	1/1	21.7	B01	D31	42
ER550	EXIDE DUAL - Better Battery - ER550	B	12V	115AH	760 EN	349x175x235	1/1	27.8	B00	LOT7	36
ER600	EXIDE DUAL - Better Battery - ER600	-	12V	120AH	800 EN	349x175x285	1/1	31.4	B00	WOR7	24

Part Number	Description	NCC Rating	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE EQUIPMENT - Best Battery											
ET1300	EQUIPMENT - Best Battery - ET1300	-	12V	180AH	900 EN	513 x 223 x 223	3/1	49.7	B00	B	21
ET1600	EQUIPMENT - Best Battery - ET1600	-	12V	230AH	1100 EN	518 x 279 x 240	3/1	64.8	B00	C	18
ET550	EQUIPMENT - Best Battery - ET550	C	12V	80AH	600 EN	278 x 175 x 190	0/1	20.7	B13	L03	54
ET650	EQUIPMENT - Best Battery - ET650	A	12V	100AH	800 EN	353 x 175 x 190	0/1	26.5	B13	L05	36
ET950	EQUIPMENT - Best Battery - ET950	-	12V	135AH	700 EN	513 x 189 x 223	3/1	39.5	B00	A	24
EU140-6	EQUIPMENT - Best Battery - EU140-6	-	6V	140AH	900 EN	257 x 175 x 236	0/1	18.4	B01	M04	60
EU165-6	EQUIPMENT - Best Battery - EU165-6	-	6V	165AH	900 EN	330 x 174 x 234	0/1	25	B00	M05	36
EU80-6	EQUIPMENT - Best Battery - EU80-6	-	6V	80AH	600 EN	158 x 165 x 220	0/1	11	B00	M02	72
EXIDE Lithium											
EV1600	EV1600	-	12V	125Ah	-	318 x 165 x 215	1/M08	0	B00	GRP27	0

Start AGM

AGM flat or orbital with VRLA venting

- Superior starting power
- Absolutely maintenance free
- Suitable for long resting periods
- Up to 50% faster recharging
- High inclination
- High vibration & tilt resistant
- Internal gas recombination
- No location constraints
- Safe and clean



Start

Standard flooded with plug venting

- Superior starting power
- Absolutely maintenance free
- Very low gas emission
- Spark arrestor & central degassing for safe gas conduction
- Slight inclination



Part Number	Description	NCC Rating	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
EXIDE EQUIPMENT AGM - Superior Battery											
EQ1000	EQUIPMENT AGM - Superior Battery - EQ1000	-	12V	120Ah	1100 EN	286 x 269 x 230	EN taper post	40	B0	D07	1
EQ600	EQUIPMENT AGM - Superior Battery - EQ600	-	12V	70Ah	760 EN	278 x 278 x 175	EN taper post	20.6	B13	L03	51
EQ800	EQUIPMENT AGM - Superior Battery - EQ800	-	12V	95Ah	850 EN	353 x 175 x 190	EN taper post	25.9	B13	L05	36
EXIDE EQUIPMENT GEL - Superior Battery											
ES1000-6	EQUIPMENT GEL - Superior Battery - ES1000-6	A	6V	195AH	900 EN	244 x 190 x 275	0/1	29	B00	GC2	36
ES1100-6	EQUIPMENT GEL - Superior Battery - ES1100-6	A	6V	200AH	950 EN	244 x 190 x 275	0/M10 thread pos. and neg.	30.5	B00	GC2	36
ES1200	EQUIPMENT GEL - Superior Battery - ES1200	A	12V	110AH	760 EN	286 x 269 x 230	2/1	37.5	B00	6TN	24
ES1300	EQUIPMENT GEL - Superior Battery - ES1300	A	12V	120AH	750 EN	349 x 175 x 285	0/1	37.5	B00	WOR7	24
ES1350	EQUIPMENT GEL - Superior Battery - ES1350	A	12V	120AH	760 EN	513 x 189 x 223	3/1	40	B00	A	24
ES1600	EQUIPMENT GEL - Superior Battery - ES1600	A	12V	140AH	900 EN	513 x 223 x 223	3/1	47	B00	B	21
ES2400	EQUIPMENT GEL - Superior Battery - ES2400	A	12V	210AH	1030 EN	518 x 279 x 240	3/1	63.5	B00	C	18
ES290	EQUIPMENT GEL - Superior Battery - ES290	-	12V	25AH	240 EN	166 x 175 x 125	0/Flat lug hole M5	9.6	B00	P24	120
ES450	EQUIPMENT GEL - Superior Battery - ES450	-	12V	40AH	280 EN	207 x 175 x 175	0/19	14.2	B04	LB1	72
ES650	EQUIPMENT GEL - Superior Battery - ES650	-	12V	56AH	460 EN	278 x 175 x 190	0/1	20.8	B13	L03	45

Exide AGM Batteries

Exide AGM offers impressive reliability and lifespan, easily withstanding cold winters and other harsh conditions. The battery is completely maintenance free, only requiring initial acid filling to get you started. It features AGM technology, and is ideal for the majority of applications, including high-end scooters.

Benefits:

- Extended cycle life
- Ideal for seasonal use and cold weather
- Great safety features and vibration resistant
- Maintenance free – no water refilling
- 6-bottle acid pack included for initial filling
- Easy stock handling – no recharge required before acid filling
- Wide range covering 90% of the parc



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down
ET12A-BS	AGM Motorcycle Battery	YT12A-BS	12V	9.5AH	130 EN	150 x 90 x 105	1/M04	3.4	B00
ET12B-BS	AGM Motorcycle Battery	YT12B-BS	12V	10AH	160 EN	150 x 70 x 130	1/M04	3.7	B00
ET14B-BS	AGM Motorcycle Battery	YT14B-BS	12V	12AH	190 EN	150 x 70 x 145	1/M04	4.1	B00
ET4B-BS	AGM Motorcycle Battery	YT4B-BS	12V	2.3AH	35 EN	115 x 40 x 85	4/M13	0.9	B00
ET7B-BS	AGM Motorcycle Battery	YT7B-BS	12V	6.5AH	85 EN	150 x 65 x 95	1/M04	2.4	B00
ET9B-BS	AGM Motorcycle Battery	YT9B-BS	12V	8AH	110 EN	150 x 70 x 105	1/M04	2.9	B00
ETR4A-BS	AGM Motorcycle Battery	YTR4A-BS	12V	2.3AH	35 EN	115 x 50 x 85	4/M14	1	B00
ETX12-BS	AGM Motorcycle Battery	YTX12-BS	12V	10AH	150 EN	150 x 90 x 130	1/M04	3.9	B00
ETX14AH-BS	AGM Motorcycle Battery	YTX14AH-BS	12V	12AH	210 EN	135 x 90 x 165	1/M04	4.9	B00
ETX14AHL-BS	AGM Motorcycle Battery	YTX14AHL-BS	12V	12AH	210 EN	135 x 90 x 165	0/M04	4.9	B00
ETX14-BS	AGM Motorcycle Battery	YTX14-BS	12V	12AH	200 EN	150 x 90 x 145	1/M04	4.5	B00
ETX14L-BS	AGM Motorcycle Battery	YTX14L-BS	12V	12AH	200 EN	150 x 90 x 145	0/M04	4.5	B00
ETX16-BS	AGM Motorcycle Battery	YTX16-BS	12V	14AH	215 EN	150 x 90 x 160	1/M04	5.1	B00
ETX20CH-BS	AGM Motorcycle Battery	YTX20CH-BS	12V	18AH	230 EN	150 x 90 x 160	1/M04	5.7	B00
ETX20H-BS	AGM Motorcycle Battery	YTX20H-BS	12V	18AH	270 EN	175 x 90 x 155	1/M04	6.1	B00
ETX20HL-BS	AGM Motorcycle Battery	YTX20HL-BS	12V	18AH	270 EN	175 x 90 x 155	0/M04	6.1	B00
ETX24HL-BS	AGM Motorcycle Battery	YTX24HL-BS	12V	21AH	350 EN	205 x 90 x 165	0/M04	5.8	B00
ETX4L-BS	AGM Motorcycle Battery	YTX4L-BS	12V	3AH	50 EN	115 x 70 x 85	0/M04	1.5	B00
ETX5L-BS	AGM Motorcycle Battery	YTX5L-BS	12V	4AH	70 EN	115 x 70 x 105	0/M04	1.9	B00
ETX7A-BS	AGM Motorcycle Battery	YTX7A-BS	12V	6AH	90 EN	150 x 90 x 95	1/M04	2.5	B00
ETX7L-BS	AGM Motorcycle Battery	YTX7L-BS	12V	6AH	100 EN	115 x 70 x 130	0/M04	2.2	B00
ETX9-BS	AGM Motorcycle Battery	YTX9-BS	12V	8AH	120 EN	150 x 90 x 105	1/M12	3.1	B00
ETX9C-BS	AGM Motorcycle Battery	YTX9C-BS	12V	9AH	120 EN	135 x 75 x 140	1/M04	3.2	B00
ETZ10-BS	AGM Motorcycle Battery	YTZ10-BS	12V	8.6AH	145 EN	150 x 90 x 95	1/M12	3.4	B00
ETZ14-BS	AGM Motorcycle Battery	YTZ14-BS	12V	11.2AH	205 EN	150 x 90 x 110	1/M04	4.1	B00
ETZ7-BS	AGM Motorcycle Battery	YTZ7-BS	12V	6AH	10 EN	115 x 70 x 105	0/M04	2.2	B00

AGM Ready

AGM Ready provides maximum power and is entirely “install and forget”, just like you always wanted. No initial acid filling or water topping required! The battery is leak-proof, spill-proof and highly vibration-resistant, ideal for powersport, all-terrain and extreme uses. Exide AGM Ready offers incredible performance and exceptional starting power in all weather conditions, making it also ideal for jet-skis.

- Maximum power
- Extended cycle life
- Ideal for cold weather
- Low self-discharge - suitable for seasonal use
- Original equipment experience inside
- Ultra safe and highly vibration resistant - ideal for rough road conditions
- Ready to use, no initial acid filling
- Maintenance free – no water refilling
- Largest range in the market - covering 80% of the parc



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down
AGM12-10	AGM Ready Motorcycle Battery	YTX12	12V	10AH	150 EN	150 x 90 x 130	1/M04	3.9	B00
AGM12-12	AGM Ready Motorcycle Battery	YTX14	12V	12AH	200 EN	150 x 90 x 145	1/M04	4.5	B00
AGM12-12F	AGM Ready Motorcycle Battery	NP12-12	12V	12AH	150 EN	150 x 100 x 100	3/Faston S (4;8)	3.8	B00
AGM12-12M	AGM Ready Motorcycle Battery	GYZ16H	12V	12AH	200 EN	200 x 150 x 90	1/M04	4.5	B00
AGM12-14	AGM Ready Motorcycle Battery	YTX14AH	12V	12AH	210 EN	135 x 90 x 165	0/M04	4.8	B00
AGM12-16	AGM Ready Motorcycle Battery	YTX16	12V	16AH	170 EN	150 x 90 x 160	1/M04	7.2	B00
AGM12-18	AGM Ready Motorcycle Battery	51814; 51913	12V	18AH	250 EN	180 x 75 x 165	0/M11	7.2	B00
AGM12-23	AGM Ready Motorcycle Battery	YTX24HL	12V	21AH	350 EN	205 x 90 x 165	0/M04	7	B00
AGM12-31	AGM Ready Motorcycle Battery	YTX30L	12V	30AH	430 EN	165 x 130 x 175	0/M04	9.8	B00
AGM12-4	AGM Ready Motorcycle Battery	YTX4L	12V	3AH	50 EN	115 x 70 x 85	0/M04	1.2	B00
AGM12-5	AGM Ready Motorcycle Battery	YTX5L	12V	4AH	70 EN	115 x 70 x 105	0/M04	1.8	B00
AGM12-7F	AGM Ready Motorcycle Battery	YT7B	12V	7AH	85 EN	150 x 65 x 95	3/Faston S (4;8)	2.5	B00
AGM12-8	AGM Ready Motorcycle Battery	YTZ10S	12V	8.6AH	145 EN	150 x 90 x 95	1/M12	3.4	B00
AGM12-9	AGM Ready Motorcycle Battery	YTX9C	12V	9AH	120 EN	135 x 75 x 140	1/M04	3.2	B00

Exide Conventional Batteries

Exide Conventional batteries are designed for entry-level and older vehicles with basic power needs. They are also ideal for small lawn movers and garden machines.

Benefits:

- Acid pack included for initial filling
- Easy stocking and handling – no recharge required before initial acid filling
- A great variety of battery types, including 6V



Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down
ETX24HL-BS	AGM Motorcycle Battery	YTX24HL-BS	12V	21AH	350 EN	205 x 90 x 165	0/M04	5.8	B00
ETX4L-BS	AGM Motorcycle Battery	YTX4L-BS	12V	3AH	50 EN	115 x 70 x 85	0/M04	1.5	B00
ETX5L-BS	AGM Motorcycle Battery	YTX5L-BS	12V	4AH	70 EN	115 x 70 x 105	0/M04	1.9	B00
ETX7A-BS	AGM Motorcycle Battery	YTX7A-BS	12V	6AH	90 EN	150 x 90 x 95	1/M04	2.5	B00
ETX7L-BS	AGM Motorcycle Battery	YTX7L-BS	12V	6AH	100 EN	115 x 70 x 130	0/M04	2.2	B00
ETX9-BS	AGM Motorcycle Battery	YTX9-BS	12V	8AH	120 EN	150 x 90 x 105	1/M12	3.1	B00
ETX9C-BS	AGM Motorcycle Battery	YTX9C-BS	12V	9AH	120 EN	135 x 75 x 140	1/M04	3.2	B00
ETZ10-BS	AGM Motorcycle Battery	YTZ10-BS	12V	8.6AH	145 EN	150 x 90 x 95	1/M12	3.4	B00
ETZ14-BS	AGM Motorcycle Battery	YTZ14-BS	12V	11.2AH	205 EN	150 x 90 x 110	1/M04	4.1	B00
ETZ7-BS	AGM Motorcycle Battery	YTZ7-BS	12V	6AH	10 EN	115 x 70 x 105	0/M04	2.2	B00
EXIDE Conventional Motorcycle Battery									
E12N5-3B	12V Conventional Motorcycle Battery	12N5-3B	12V	5AH	40 EN	120 x 60 x 130	0/M06	2	B00
E50-N18L-A	12V Conventional Motorcycle Battery	Y50-N18L-A	12V	20AH	260 EN	205 x 90 x 165	0/M07	6.6	B00
E60-N24-A	12V Conventional Motorcycle Battery	Y60-N24-A	12V	28AH	280 EN	185 x 125 x 175	1/M11	8.6	B00
E60-N24L-A	12V Conventional Motorcycle Battery	Y60-N24L-A	12V	28AH	280 EN	185 x 125 x 175	0/M11	8.6	B00
E60-N30-A	12V Conventional Motorcycle Battery	Y60-N30-A	12V	30AH	300 EN	185 x 130 x 170	1/M11	8.9	B00
E60-N30L-B	12V Conventional Motorcycle Battery	Y60-N30L-B	12V	30AH	300 EN	185 x 130 x 170	0/M11	8.9	B00
E6N11A-1B	6V Conventional Motorcycle Battery	6N11A-1B	6V	11AH	95 EN	120 x 60 x 130	0/M06	2	B00
E6N4B-2A	6V Conventional Motorcycle Battery	6N4B-2A	6V	4AH	35 EN	100 x 50 x 95	1/M00 (Hole)	0.9	B00
E6N6-3B-1	6V Conventional Motorcycle Battery	6N6-3B-1	6V	6AH	40 EN	100 x 55 x 110	2/M06	1.2	B00
EB10L-A2	12V Conventional Motorcycle Battery	YB10L-A2	12V	11AH	130 EN	135 x 90 x 145	0/M08	4.1	B00
EB10L-B	12V Conventional Motorcycle Battery	YB10L-B	12V	11AH	130 EN	135 x 90 x 145	0/M06	4.1	B00
EB10L-B2	12V Conventional Motorcycle Battery	YB10L-B2	12V	11AH	130 EN	135 x 90 x 145	0/M08	4.1	B00
EB12A-A	12V Conventional Motorcycle Battery	YB12A-A	12V	12AH	165 EN	135 x 80 x 160	1/M06	4.2	B00
EB12AL-A	12V Conventional Motorcycle Battery	YB12AL-A	12V	12AH	165 EN	135 x 80 x 160	0/M06	4.2	B00
EB12AL-A2	12V Conventional Motorcycle Battery	YB12AL-A2	12V	12AH	165 EN	135 x 80 x 160	0/M04	4.2	B00
EB14-A2	12V Conventional Motorcycle Battery	YB14-A2	12V	14AH	145 EN	135 x 90 x 165	1/M08	4.6	B00
EB14-B2	12V Conventional Motorcycle Battery	YB14-B2	12V	14AH	145 EN	135 x 90 x 165	1/M08	4.6	B00
EB14L-A2	12V Conventional Motorcycle Battery	YB14L-A2	12V	14AH	145 EN	135 x 90 x 165	0/M08	4.6	B00
EB14L-B2	12V Conventional Motorcycle Battery	YB14L-B2	12V	14AH	145 EN	135 x 90 x 165	0/M08	4.6	B00
EB16AL-A2	12V Conventional Motorcycle Battery	YB16AL-A2	12V	16AH	175 EN	205 x 70 x 165	0/M02	5.2	B00
EB16-B	12V Conventional Motorcycle Battery	YB16-B	12V	19AH	190 EN	175 x 100 x 155	1/M06	6	B00
EB16CL-B	12V Conventional Motorcycle Battery	YB16CL-B	12V	19AH	190 EN	175 x 100 x 175	0/M04	6.1	B00
EB16L-B	12V Conventional Motorcycle Battery	YB16L-B	12V	19AH	190 EN	175 x 100 x 155	0/M06	6	B00
EB18L-A	12V Conventional Motorcycle Battery	YB18L-A	12V	18AH	190 EN	180 x 90 x 160	0/M07	6	B00
EB30L-B	12V Conventional Motorcycle Battery	YB30L-B	12V	30AH	300 EN	165 x 130 x 175	0/M04	8.8	B00
EB4L-B	12V Conventional Motorcycle Battery	YB4L-B	12V	4AH	50 EN	120 x 70 x 95	0/M04	1.6	B00
EB5L-B	12V Conventional Motorcycle Battery	YB5L-B	12V	5AH	65 EN	120 x 60 x 130	0/M06	2	B00
EB7-A	12V Conventional Motorcycle Battery	YB7-A	12V	8AH	85 EN	135 x 75 x 135	1/M06	2.9	B00
EB7L-B	12V Conventional Motorcycle Battery	YB7L-B	12V	8AH	85 EN	135 x 75 x 135	0/M06	2.9	B00
EB9-B	12V Conventional Motorcycle Battery	YB9-B	12V	9AH	100 EN	135 x 75 x 140	1/M06	3.1	B00
EB9L-B	12V Conventional Motorcycle Battery	YB9L-B	12V	9AH	100 EN	135 x 75 x 140	0/M06	3.1	B00

Exide Gel Batteries

Exide GEL is the ultimate choice for any premium motorcycle, scooter and powersport vehicle. It is designed to bring you maximum comfort on the road, easily handling power hungry equipment like audio, GPS, additional lights and heating systems. It is completely spill-proof, leak-proof and highly vibration resistant, making it also ideal for off-road uses. Its deep discharge protection and very low self-discharge make it perfect for long storage periods and seasonal use. Gel technology was originally invented by Exide, and is now the gold standard in motorcycle batteries.



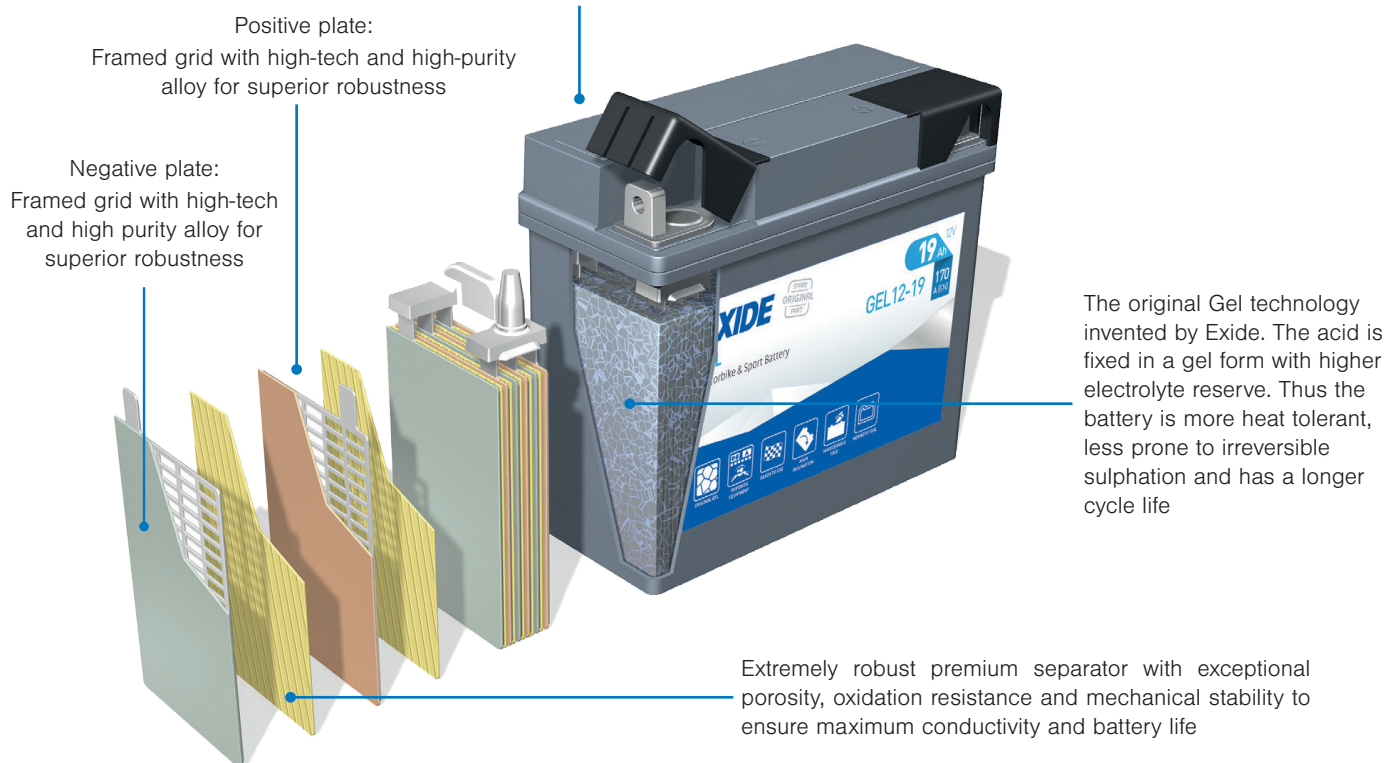
Benefits:

- Ideal for premium vehicles with power hungry electrical equipment
- Very low self-discharge - perfect for seasonal use
- Deep-discharge protection - store for up to 24 months without loss in cycle life
- Brilliant performance even when partially discharged, prolonging cycle life
- Maximum safety and highly vibration resistant - easily handles rough road conditions
- Ready to use, no initial acid filling
- Maintenance free - no water refilling
- Latest original equipment technology
- Made in Europe

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down
GEL12-16	Gel Motorcycle Battery	51913	12V	16AH	100 EN	180 x 75 x 165	0/M11	6.5	B0
GEL12-19	Gel Motorcycle Battery	51814; 51913	12V	19AH	170 EN	185 x 80 x 170	0/M11	6.5	B00
GEL12-30	Gel Motorcycle Battery	U1	12V	30AH	180 EN	197 x 132 x 186	1/19	11.1	B00

High performance components and materials

Superior valves, cell sealing and ultra pure battery materials for low self-discharge and extra security



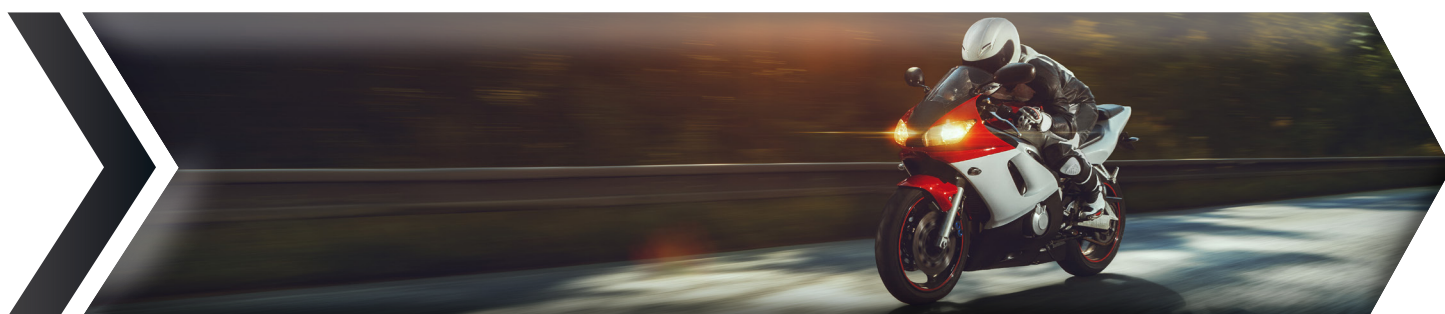
Exide Li-Ion Batteries

Exide is speeding up your passion. It has launched a new lithium-ion Motorbike & Sport battery range for those who demand the ultimate riding experience.

The battery's ultra-lightweight design reduces the overall weight of your bike, enabling faster acceleration and better performance. It has very low self-discharge, ideal for starting your engine after long periods off the road. Exide Li-ion can be

Benefits

- Ultra-lightweight – up to 80% lighter than lead-acid batteries
- Very low self-discharge – long shelf life and perfect for seasonal use
- Super-fast recharging
- Extreme cycle life – more than 2000 cycles
- First-class safety features
- Multi-position mounting – even upside down
- Ready to use and maintenance free – just install and forget
- State-of-charge indicator for regular checks at one glance
- Covers the majority of parc – spacers included for more fitment possibilities



Part Number	Description	X Ref	Voltage	Capacity	Current (A)	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down
ELT9B	Lithium Motorcycle Battery	YT7B-BS; YT9B-BS	12V	28.8(WH)	190 A	150 x 65 x 95	1/M12	0.7	B00
ELT12B	Lithium Motorcycle Battery	YT12B-BS; YT14B-BS; YB16AL-A2	12V	42(WH)	260 A	150 x 70 x 130	1/M12	0.9	B00
ELTX12	Lithium Motorcycle Battery	YTX12-BS; YTX12A-BS; YB12B-B2	12V	48(WH)	210 A	150 x 90 x 95	1/M12	0.8	B00
ELTX14H	Lithium Motorcycle Battery	YTX14H-BS; KMX14-B; YTX14-BS	12V	60(WH)	240 A	150 x 90 x 95	1/M12	0.9	B00
ELTX20H	Lithium Motorcycle Battery	"GYZ20H; YTX20H-BS; YTX20HLBS; YTX20-BS; YB16- B-CX; YB16-B; YB16C-B; YB18-A; Y50-N18A-A"	12V	84(WH)	380 A	175 x 90 x 130	1/M12	1.3	B00
ELTX9	Lithium Motorcycle Battery	YTX7A-BS; YTX9-BS; YTR9-BS	12V	48(WH)	180 A	150 x 90 x 105	1/M12	0.7	B00
ELTZ5S	Lithium Motorcycle Battery	YTZ5S, YTX4L-BS, YTX5L-BS	12V	24(WH)	A	113 x 70 x 105	1/M12	0.5	B00
ELTZ7S	Lithium Motorcycle Battery	YTZ27S, YTX7L-BS	12V	28.8(WH)	A	113 x 70 x 105	1/M12	0.6	B00
ELTZ10S	Lithium Motorcycle Battery	YTZ10S	12V	60(WH)	230 A	150 x 90 x 95	1/M12	0.8	B00
ELTZ14S	Lithium Motorcycle Battery	YTZ12S; YTZ14S	12V	36(WH)	290 A	150 x 90 x 95	1/M12	1	B00



PREMIUM

- High quality assured
- Maintenance free
- Calcium technology

Lucas batteries are built to the very highest specification to meet the demands of today's world. Modern vehicles require premium performance in order to fulfil the electrical requirements of their increasingly sophisticated technological features.

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
LUCAS PREMIUM CAR BATTERY											
LF14A	Premium Auxiliary Car Battery 514 145 020	-	12V	14AH	200 EN	150 x 87 x 145	1/3	4.71	B0	-	200
LP004	Premium Car Battery 550 221 045	004R	12V	50AH	450 EN	200 x 170 x 225	1/1	13	B01	D20	84
LP005	Premium Car Battery 560 220 054	005L	12V	60AH	540 EN	230 x 170 x 225	0/1	14.8	B00	D23	63
LP008	Premium Car Battery 550 220 045	004L	12V	50AH	450 EN	200 x 170 x 225	0/1	13	B01	D20	84
LP009	Premium Car Battery 550 200 050	009L	12V	50AH	500 EN	226 x 170 x 200	0/1	13.25	B13	85	63
LP010	Premium Car Battery 550 201 050	009R	12V	50AH	500 EN	226 x 170 x 200	1/1	13.25	B13	85	63
LP012	Premium Car Battery 545 190 039	012	12V	45AH	390 EN	210 x 175 x 190	0/1	11	B13	L1	72
LP014	Premium Car Battery 560 221 054	005R	12V	60AH	540 EN	230 x 170 x 225	1/1	15.7	B00	D23	63
LP017	Premium Car Battery 590 170 072	017	12V	90AH	720 EN	354 x 175 x 190	0/1	21.2	B13	L5	36
LP018	Premium Car Battery 588 191 076	018	12V	88AH	760 EN	354 x 175 x 190	1/1	25.2	B13	L5	36
LP019	Premium Car Battery 595 190 080	019	12V	95AH	800 EN	354 x 175 x 190	0/1	21.6	B13	L5	36
LP020	Premium Car Battery 610 190 092	020	12V	110AH	920 EN	393 x 175 x 190	0/1	25.22	B13	L6	36
LP027	Premium Car Battery 560 190 054	027	12V	60AH	540 EN	243 x 175 x 190	0/1	13.8	B13	L2	63
LP053	Premium Car Battery 545 220 039	053	12V	45AH	390 EN	234 x 128 x 220	0/1	10.7	B00	B24	90
LP054	Premium Car Battery 540 220 033	054	12V	40AH	360 EN	196 x 127 x 223	0/3	9.5	B00	B19	108
LP055	Premium Car Battery 540 221 033	055	12V	40AH	360 EN	196 x 127 x 223	1/3	9.5	B00	B19	108
LP056	Premium Car Battery 540 220 034	054H	12V	40AH	350 EN	187 x 127 x 220	0/3	9.5	B01	B19	96
LP057	Premium Car Battery 545 221 039	057	12V	45AH	390 EN	234 x 128 x 220	1/1	10.7	B00	B24	90
LP063	Premium Car Battery 544 170 042	063	12V	44AH	420 EN	210 x 175 x 175	0/1	11.3	B13	LB1	72
LP065	Premium Car Battery 553 170 048	065	12V	53AH	480 EN	243 x 175 x 175	0/1	12.7	B13	LB2	63
LP068	Premium Car Battery 568 220 054	068	12V	68AH	540 EN	270 x 173 x 222	0/1	16.6	B01	D26	63
LP069	Premium Car Battery 568 221 054	069	12V	68AH	540 EN	266 x 175 x 220	1/1	16.3	B01	D26	63
LP072	Premium Car Battery 570 221 060	072T	12V	70AH	600 EN	266 x 175 x 220	1/1	20.7	B00	D26	54
LP075	Premium Car Battery 560 170 054	075	12V	60AH	540 EN	243 x 175 x 175	0/1	13.8	B13	LB2	63
LP077	Premium Car Battery 545 171 039	077	12V	45AH	390 EN	210 x 175 x 190	1/1	11.7	B13	L1	72
LP078	Premium Car Battery 556 191 051	078	12V	56AH	510 EN	243 x 175 x 190	1/1	13.9	B13	L2	63
LP079	Premium Car Battery 550 190 042	012	12V	50AH	420 EN	210 x 175 x 190	0/1	11.8	B13	L1	72
LP085	Premium Car Battery 543 170 410	085	12V	43AH	410 EN	210 x 175 x 175	0/13	11.12	B13	LB1	72
LP086	Premium Car Battery 570 191 064	096R	12V	70AH	640 EN	278 x 175 x 190	1/1	17	B13	L3	48
LP096	Premium Car Battery 575 190 068	096	12V	75AH	680 EN	278 x 175 x 190	0/1	17.5	B13	L3	51
LP097	Premium Car Battery 560 170 057	097	12V	60AH	570 EN	243 x 175 x 175	0/19	14.2	B13	LB2	63
LP099	Premium Car Battery 572 190 072	099	12V	72AH	720 EN	278 x 175 x 190	0/19	17.62	B13	L3	48
LP100	Premium Car Battery 572 170 068	100	12V	72AH	680 EN	278 x 175 x 175	0/1	16.3	B13	LB3	48
LP102	Premium Car Battery 540 191 034	102	12V	40AH	340 EN	175 x 175 x 190	1/1	10	B13	L0	72
LP110	Premium Car Battery 580 170 074	110	12V	80AH	740 EN	317 x 175 x 175	0/1	18.6	B13	LB4	45
LP115	Premium Car Battery 580 190 067	115	12V	80AH	670 EN	317 x 175 x 190	0/1	19.1	B13	L4	45
LP116	Premium Car Battery 580 191 067	116	12V	80AH	670 EN	317 x 175 x 190	1/1	19.1	B13	L4	45
LP154	Premium Car Battery 545 220 038	154	12V	45AH	380 EN	234 x 128 x 220	0/3	11.7	B00	B24	90
LP155	Premium Car Battery 545 221 038	155	12V	45AH	380 EN	234 x 128 x 220	1/3	11.7	B00	B24	90
LP202	Premium Car Battery 540 190 034	202	12V	40AH	340 EN	175 x 175 x 190	0/1	10.8	B13	L0	72
LP249	Premium Car Battery 591 220 076	249H	12V	91AH	760 EN	302 x 175 x 225	0/1	20.6	B01	D31	48
LP250	Premium Car Battery 591 221 076	250H	12V	91AH	760 EN	302 x 175 x 225	1/1	20.6	B01	D31	48
LP312	Premium Car Battery 605 232 092	640	12V	105AH	920 EN	330 x 171 x 237	2/1	25.14	B00	C31	36
LP580	Premium Car Battery 560 170 051	AM058L	12V	60AH	510 EN	242 x 175 x 175	0/1	13.42	B04	58	60
LP581	Premium Car Battery 560 171 051	AM058R	12V	60AH	510 EN	242 x 175 x 175	1/1	13.42	B04	58	60
LP751	Premium Car Battery 560 181 051	75-550	12V	60AH	510 EN	230 x 179 x 185	1/SIDE	14.32	B01	75	54
LP781	Premium Car Battery 575 181 058	78-630	12V	75AH	580 EN	260 x 179 x 185	1/SIDE	16.17	B01	78	54
LP788	Premium Car Battery 575 201 058	78DT-630	12V	75AH	580 EN	260 x 179 x 201	1/1+SIDE	16.43	B01	78	54

Lucas Classic and Premium automotive batteries are maintenance free, have enhanced starting power and calcium technology, all of which enables them to carry on working, even under the toughest conditions. With 99% of the vehicle parc covered by these market leading ranges, you can truly Trust Lucas.

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
LUCAS SUPREME CAR BATTERY											
LS012	Lucas Supreme 558 190 052	012	12V	58AH	520 EN	210 x 175 x 190	0/1	11.3	B13	L1	72
LS019	Lucas Supreme 600 190 085	019	12V	100AH	850 EN	354 x 175 x 190	0/1	23.2	B13	L5	36
LS027	Lucas Supreme 565 190 064	027	12V	65AH	640 EN	243 x 175 x 190	0/1	15.3	B13	L2	60
LS063	Lucas Supreme 550 170 050	063	12V	50AH	500 EN	210 x 175 x 175	0/1	11.8	B13	LB1	72
LS075	Lucas Supreme 562 170 060	075	12V	62AH	600 EN	243 x 175 x 175	0/1	14	B13	LB2	63
LS096	Lucas Supreme 578 190 078	096	12V	78AH	780 EN	278 x 175 x 190	0/1	18.7	B13	L3	48
LS100	Lucas Supreme 574 170 075	100	12V	74AH	750 EN	278 x 175 x 175	0/1	16.3	B13	LB3	48
LS110	Lucas Supreme 588 170 080	110	12V	88AH	800 EN	303 x 175 x 175	0/1	19.3	B13	LB4	45
LS154	Lucas Supreme 555 220 048	154	12V	55AH	480 EN	234 x 128 x 220	0/3	12.6	B00	B24	90
LS155	Lucas Supreme 555 221 048	155	12V	55AH	480 EN	234 x 128 x 220	1/3	12.6	B00	B24	90
LS249	Lucas Supreme 600 220 080	249H	12V	100AH	800 EN	302 x 175 x 220	0/1	22.4	B01	D31	48
LS250	Lucas Supreme 600 221 080	250H	12V	100AH	800 EN	302 x 175 x 220	1/1	22.4	B01	D31	48

CLASSIC



- Good starting performance
- Portable and easy to install
- Great for the basic car

SUPREME

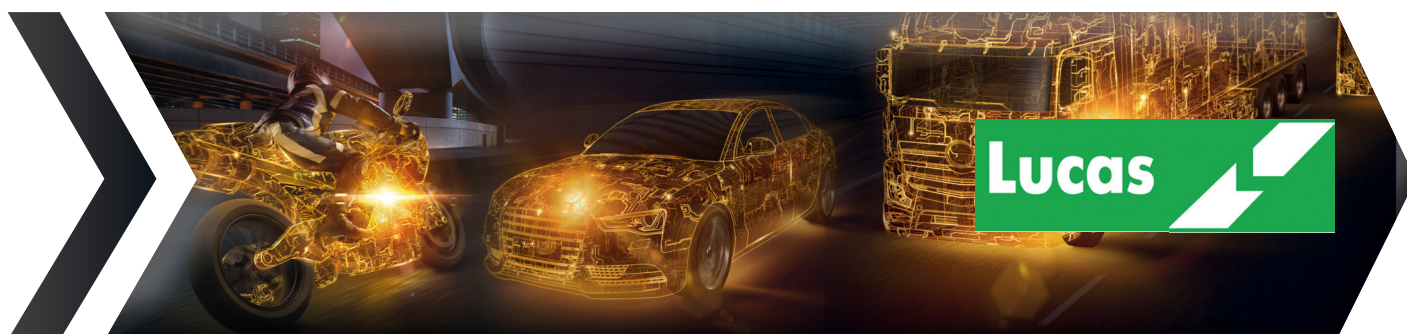


- Higher cranking power
- Maintenance free
- Calcium technology

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
LUCAS CLASSIC CAR BATTERY											
LC012	Classic Car Battery 542 190 036	012	12V	42AH	360 EN	210 x 175 x 190	0/1	10.8	B13	L1	72
LC017	Classic Car Battery 583 170 072	017	12V	83AH	720 EN	354 x 175 x 190	0/1	20.8	B13	L5	36
LC027	Classic Car Battery 560 190 053	027	12V	60AH	530 EN	243 x 175 x 190	0/1	14.2	B13	L2	60
LC037	Classic Car Battery 536 201 030	037	12V	36AH	300 EN	245 x 135 x 200	1/19	11	B09	B1V	90
LC038	Classic Car Battery 536 201 031	038	12V	36AH	310 EN	243 x 127 x 200	1/1	11	B09	B1V	90
LC048	Classic Car Battery 545 230 030	048H	12V	45AH	300 EN	218 x 133 x 228	0/1	10.8	B01	E2	90
LC049	Classic Car Battery 545 231 030	049H	12V	45AH	300 EN	218 x 11 x 228	1/1	10.8	B01	E2	90
LC063	Classic Car Battery 541 170 039	063	12V	41AH	390 EN	210 x 175 x 175	0/1	10.7	B13	LB1	72
LC075	Classic Car Battery 560 170 053	075	12V	60AH	530 EN	243 x 175 x 175	0/1	13.8	B13	LB2	60
LC096	Classic Car Battery 570 190 064	096	12V	70AH	640 EN	278 x 175 x 189	0/1	17	B13	L3	48
LC100	Classic Car Battery 568 170 064	100	12V	68AH	640 EN	278 x 175 x 175	0/1	15.7	B13	LB3	48

Lucas Batteries

The Lucas Fusion AGM & EFB battery ranges feature even higher cyclic stability and recharge more quickly than conventional lead-acid batteries. These characteristics are essential, especially when it comes to advanced systems which employ regenerative braking and other fuel-saving technologies.



FUSION AGM

- Up to 50% more starting power
- AGM technology
- Sealed – maintenance free



FUSION EFB

- Up to 50% more starting power
- EFB technology
- Sealed – maintenance free

Part Number	Description	X Ref	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
LUCAS AGM CAR BATTERY											
LF012	StartStopAGM Car Battery 550 190 052	012AGM	12V	50AH	520EN	207 x 175 x 190	0/1	15.9	B13	L1	80
LF017	StartStopAGM Car Battery 595 190 085	017AGM	12V	95AH	850 EN	353 x 175 x 190	0/1	26.4	B13	L5	36
LF020	StartStopAGM Car Battery 605 190 095	020AGM	12V	105AH	950 EN	393 x 175 x 190	0/1	29.2	B13	L6	36
LF027	StartStopAGM Car Battery 560 190 068	027AGM	12V	60AH	680 EN	242 x 175 x 190	0/1	17.7	B13	L2	60
LF057	Aux AGM (JIS Terminal) Car Battery 545 221 032	057AGM	12V	45AH	320 EN	236 x 125 x 220	1/3	13	B00	B24	90
LF068	StartStopAGM Car Battery 575 220 072	068AGM	12V	75AH	720 EN	260 x 172 x 220	0/1	19.6	B00	D26	63
LF069	StartStopAGM Car Battery 575 221 072	069AGM	12V	75AH	720 EN	260 x 175 x 220	1/1	19.6	B00	D26	63
LF096	StartStopAGM Car Battery 570 190 076	096AGM	12V	70AH	760 EN	278 x 175 x 190	0/1	20.4	B13	L3	51
LF115	StartStopAGM Car Battery 580 190 080	115AGM	12V	80AH	800 EN	315 x 175 x 190	0/1	22.5	B13	L4	45
LUCAS EFB STARTSTOP CAR BATTERY											
LE005	StartStop EFB Car Battery 560 225 052	005LEFB	12V	65AH	520 EN	230 x 172 x 200	0/1	17	B01	D23	63
LE017	StartStop EFB Car Battery 595 190 090	017EFB	12V	95AH	900 EN	352 x 175 x 190	0/1	19.6	B13	L5	36
LE020	StartStop EFB Car Battery 605 190 094	020EFB	12V	110AH	940 EN	393 x 175 x 190	0/1	19.6	B13	L6	36
LE027	StartStop EFB Car Battery 560 190 064	027EFB	12V	60AH	640 EN	242 x 175 x 190	0/1	17.7	B13	L2	63
LE068	StartStop EFB Car Battery 568 220 067	068EFB	12V	68AH	670 EN	257 x 175 x 220	0/1	19.2	B01	D26	63
LE096	StartStop EFB Car Battery 570 190 072	096EFB	12V	70AH	720 EN	277 x 174 x 190	0/1	18.9	B13	L3	48
LE100	StartStop EFB Car Battery 565 170 065	100EFB	12V	65AH	650 EN	277 x 174 x 175	0/1	16.9	B13	LB3	48
LE110	StartStop EFB Car Battery 575 170 073	110EFB	12V	75AH	730 EN	315 x 174 x 175	0/1	19.6	B13	LB4	42
LE115	StartStop EFB Car Battery 580 190 073	115EFB	12V	80AH	730 EN	315 x 175 x 190	0/1	21.8	B13	L4	42
LE249	StartStop EFB Car Battery 595 225 080	249HEFB	12V	80AH	800 EN	302 x 175 x 225	0/1	19.2	B01	D31	48
LE632	StartStop EFB Car Battery	632EFB	12V	225AH	1200 EN	517 x 275 x 238	3/1	59.5	B00	C	18

Car and Light Commercial



Type	Part Number	Opposite Layout	Higher Capacity	Lower Capacity	Taller Case	Lower Case	Nearest Alternative	EFB Alternative	AGM Alternative
AM058L	LP580	LP581			LP009		LP078		
AM058R	LP581	LP580			LP010		LP065		
002L	LP202						LP012		
004L	LP008	LP004					LP005		
004R	LP004	LP008					LP014		
005L	LP005	LP014		LP004			LP068	LE005	
005R	LP014	LP005		LP008			LP069		
009L	LP009	LP010					LP580		
009R	LP010	LP009					LP581		
012	LP012	LP077	LS012	LC012		LP063	LP063		
015	LP015			LP038			LC038		
017	LP017	LP018	LP019	LC017			LP019	LE017	LF017
018	LP018	LP017							
019	LP019	LP018	LS019	LP017			LP017	LE017	LF017
020	LP020			LP019			LP019	LE020	LF020
027	LP027	LP078	LS027	LC027		LP075	LP075	LE027	LF027
037	LC037	LC038							
038	LC038	LC037	LP015				LP015		
048H	LC048	LC049	LP053				LP053		
049H	LC049	LC048					LP057		LF057
053	LP053	LP057					LC048		
054	LP054	LP055					LP056		
054H	LP056						LP054		
055	LP055	LP054							
057	LP057	LP053					LC049		
063	LP063	LP077	LS063	LC063	LP012		LP012		
065	LP065	LP078	LP075		LP027		LP075		
068	LP068	LP069						LE068	LF068
069	LP069	LP068	LP072						LF069
072T	LP072	LP068		LP069			LP069		
075	LP075	LP078	LS075	LC075	LP027		LP027		
077	LP077	LP063/LP012							
078	LP078	LP065		LP077			LP077		
085	LP085								
096	LP096	LP086	LS096	LC096		LP100	LP100	LE096	LF096
096R	LP086	LC096							
097	LP097			LP075	LP027		LP075		
099	LP099			LP100		LP100	LP100		
100	LP100	LP086	LS100	LC100	LP096		LP076	LE100	
110	LP110		LS110	LP096	LP115		LP115	LE110	
115	LP115					LP110	LP110	LE115	LF115
154	LP154	LP155	LS154				LP054		
155	LP155	LP154	LS155				LP055		
249H	LP249	LP250	LS249						
250H	LP250	LP249	LS250						
616L	LP616	LP618							
616R	LP618	LP616							



PREMIUM



Maintenance Free

Classic, Fusion,
Supreme, Premium



SUPREME



Frequent Start

Premium CV



Long Distance

Premium CV



Lucas Commercial batteries offer reliability under the toughest working conditions. For decades Lucas Batteries have delivered outstanding performance and are trusted by UK motorists. Today Lucas offers guaranteed O.E performance across the comprehensive range of batteries which altogether covers more than 99% of the vehicle parc. That's why drivers throughout the UK trust Lucas to deliver power they can rely on.

Features:

- 99% coverage of commercial vehicle parc. Includes trucks, HGVs, agricultural and utility applications
- Reliable cold start performance - Designed for tough operating conditions
- Power and durability
- Long service life
- Minimum self-discharge
- High levels of cyclic stability



Commercial Vehicles

Type	Part Number	Opposite Layout	Higher Capacity	Lower Capacity	Narrower Case	Wider Case	Nearest Alternative
612	LP612	LP636	LS612	LP637		LP629	LC629
620	LP620						LC629
622	LP622	LP623	LC629		LP637	LP625	LC629
623	LP623	LC629			LP636	LP624	LP636
624	LP624	LP625			LP623		LP623
625	LP625	LP624	LP632		LP629		LP629
629	LC629	LP623	LP629		LP637	LP625	LP629
629UR	LP629		LS629	LC629	LP637	LP625	LC629
630	LP615						LP637
632	LP632		LS632	LP625			LP625
636	LP636	LP637				LP623	LP623
637	LP637	LP636	LP612			LC629	LC629
643	LP643	LP644	LP663				LP663
644	LP644	LP643	LP664				LP664
655	LP655	LP656					
656	LP656	LP655					
663	LP663	LP664	LP665	LP643			LP665
664	LP664	LP663		LP644			LP644





Lucas Leisure Batteries

Whatever the application, Lucas Marine and Leisure batteries will meet all your needs. Included in these ranges are battery types for all Leisure and Marine starting applications and also for dual purpose applications (starting and cycling). Lucas Marine and Leisure batteries are renowned for their quality, advanced technology and reliability.

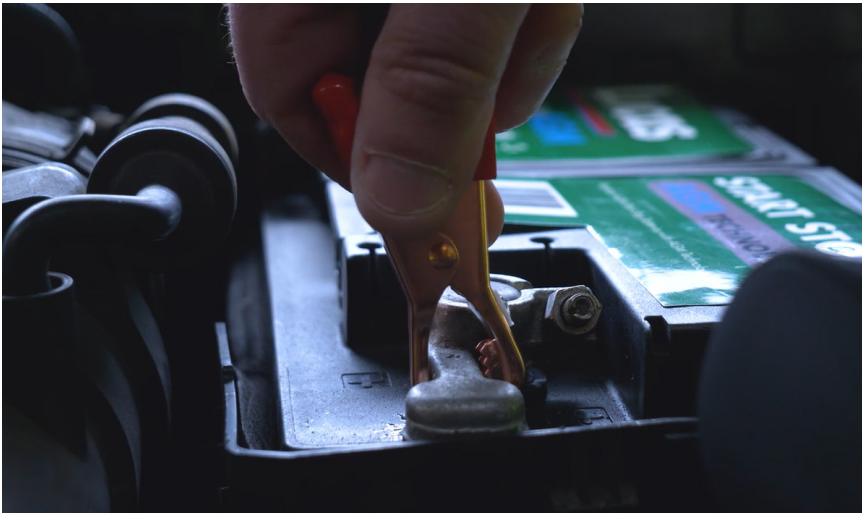
Choosing the correct leisure battery is all about understanding your power usage. The Lucas leisure range covers all situations, applications and levels of power usage depending on what you need from your battery.

If your caravan or motorhome is mostly hooked up, then you will need a less cyclic battery. If you're mostly off grid, you'll need a super cyclic battery.

Part Number	Description	NCC Rating	Voltage	Capacity	CCA	Dimensions (mm) L x W x H	Layout/ Terminal	Weight (Kg)	Hold Down	Case Size	PQ
LUCAS LEISURE BATTERY											
LL22	Premium Leisure Battery 910 075 042	C	12V	75AH	420 EN	266 x 175 x 225	1/1	17.22	B01	D26	48
LL26	Premium Leisure Battery 910 095 072	C	12V	95AH	720 EN	302 x 175 x 225	1/1	20.8	B01	D31	48
LL30	Premium Leisure Battery 910 105 075	C	12V	105AH	750 EN	330 x 175 x 240	2/1	23.3	B00	C31	36
LL35	Premium Leisure Battery 910 120 081	-	12V	120AH	900 EN	330 x 175 x 240	1/MARINE DT	28	B00	GR31	24
LUCAS MARINE BATTERY											
LM01	Premium Marine Battery 920 050 044	-	12V	50AH	440 EN	210 x 175 x 175	0/1	11.8	B13	L1	72
LM02	Premium Marine Battery 920 060 054	-	12V	60AH	540 EN	243 x 175 x 175	0/1	13.8	B13	LB2	63
LM03	Premium Marine Battery 920 072 068	-	12V	72AH	680 EN	278 x 175 x 175	0/1	16.3	B13	LB3	48
LM05	Premium Marine Battery 920 090 072	-	12V	90AH	720 EN	354 x 175 x 190	0/1	26	B13	L5	36
LUCAS PREMIUM DUAL BATTERY											
LX24	Premium Dual Battery 930 080 060	C	12V	80AH	600 EN	257 x 172 x 220	1/MARINE DT	18	B01	GR24	54
LX25	Premium Dual Battery 930 105 085	B	12V	105AH	850 EN	354 x 175 x 190	0/1	23.8	B13	L5	36
LX27	Premium Dual Battery 930 095 069	B	12V	95AH	690 EN	302 x 172 x 220	1/MARINE DT	20.8	B01	GR27	48
LX31	Premium Dual Battery 930 105 074	B	12V	105AH	740 EN	330 x 172 x 242	1/MARINE DT	23.2	B00	GR31	28
LX50	Premium Dual Battery 930 140 080	-	12V	140AH	800 EN	513 x 185 x 215	3/1	37.4	B00	A	24
LX60	Premium Dual Battery 930 180 100	-	12V	180AH	1000 EN	513 x 223 x 223	3/1	46.4	B00	B	21
LX80	Premium Dual Battery 930 225 115	-	12V	225AH	1150 EN	518 x 276 x 240	3/1	62	B00	C	12
LXC25AGM	Premium Dual AGM Battery 940 095 085	-	12V	95AH	850 EN	345 x 175 x 190	0/1	25.9	B13	L5	36

Cranking Measures Conversion Table

SAE / CCA	EN	IEC	DIN
100	100	65	60
150	140	95	85
200	180	130	110
250	230	160	140
300	280	195	170
350	330	225	200
400	360	260	225
450	420	290	255
500	480	325	280
550	520	355	310
600	540	390	335
650	600	420	365
700	640	450	395
750	680	485	420
800	760	515	450
850	790	550	480
900	860	580	505
950	900	615	535
1000	940	645	560
1050	1000	680	590
1100	1040	710	620
1150	1080	745	645
1200	1150	775	675
1250	1170	810	700
1300	1220	840	730
1350	1270	870	760
1400	1320	905	790
1450	1360	935	815
1500	1410	975	820
1540	1450	1000	870





EGO Flex

The EGO Flex is a highly reliable starter battery that can be used for all types of vehicles, from cars, vans, mobile homes to small cranes and even aerial work platforms. This starter battery is available in a wide range and can be delivered directly from stock.

The battery is completely maintenance-free and features very low self-discharge. The EGO Flex has been developed specially for vehicles with average power requirements and at a strong price-quality ratio. Do you prefer some extra power? Upgrading to EGO Maxpower is easy.



L-Reeks

Ecobat Art. nr.	Short order code	Voltage (V)	Capacity (Ah) C20	CCA (A EN)	LxWxH (mm)	Wiring diagram	Bottom mount	Weight (Kg)	Number per pallet	Also available in MP(*)
545 259 040	FL5	12	45	400	175x175x190	0	B13	10,5	72	-
540 859 036	FL7	12	40	360	207x175x175	0	B13	10,6	72	MP7
555 809 050	FL13	12	55	500	242x175x175	0	B13	13,3	63	MP13
560 819 060	FL17	12	60	600	242x175x190	0	B13	14,4	63	MP17
573 820 063	FL19	12	73	630	278x175x175	0	B13	15,9	51	MP19
574 812 068	FL21	12	74	680	278x175x190	0	B13	17,1	51	MP21
592 815 080	FL25	12	92	800	353x175x175	0	B13	20,4	36	-
600 838 085	FL28	12	100	850	353x175x190	0	B13	21,7	36	MP28
610 242 100	FL29	12	110	1000	394x175x190	0	B13	24,5	36	-

* MP: EGO Maxpower

JIS-Reeks

Ecobat Art. nr.	Short order code	Voltage (V)	Capacity (Ah) C20	CCA (A EN)	LxWxH (mm)	Wiring diagram	Bottom mount	Weight (Kg)	Number per pallet	Also available in MP(*)
545 877 040	FL32	12	45	400	196x134x226	0	B1	10,6	72	-
570 824 070	FL43	12	70	700	259x175x221	1	B1	17	48	-
595 818 085	FL47	12	95	850	303x174x218	0	B1	20,5	42	-
595 819 085	FL48	12	95	850	303x174x218	1	B1	20,5	42	-



EGO Maxpower

The EGO Maxpower is a starter battery with greatly increased power and first-class performance. The battery meets the toughest energy requirements without compromise. Compared to the EGO Flex, the EGO Maxpower offers up to 30% more energy. This is due to strong innovations in Ca/Ca technology combined with an increased number of plates. The battery is also available in different models and also features an indicator that allows you to check the status.

Is your car equipped with many accessories and do you want to face a tough winter with peace of mind? Then choose EGO Maxpower.



Ecobat Art. nr.	Short order code	Voltage (V)	Capacity (Ah) C20	CCA (A EN)	LxWxH (mm)	Wiring diagram	Bottom mount	Weight (Kg)	Number per pallet
554 888 051	MP7	12	54	510	207x175x175	0	B13	12,3	72
562 888 060	MP13	12	62	600	242x175x175	0	B13	14,5	63
566 888 064	MP17	12	66	640	242x175x190	0	B13	15,0	63
575 888 072	MP19	12	75	720	278x175x175	0	B13	16,5	51
578 888 075	MP21	12	78	750	278x175x190	0	B13	17,5	51
585 888 080		12	85	800	315x175x175	0	B13	18,8	42
600 884 090	MP28	12	100	900	353x175x190	0	B13	22,3	36

Bottom mount

B 0 No bottom fixation

B 1



B 9



B 3



B 11



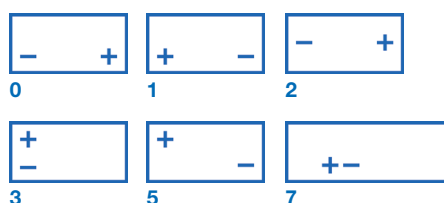
B 6



B 13



Wiring diagram





EGO Start Stop EFB

Start-stop technology is rapidly conquering today's new car and truck market. This built-in technology not only reduces fuel consumption but also reduces emissions by temporarily shutting down engines. Modern vehicles also demand more and more energy due to all kinds of digital applications and smartphone interfaces. The EGO Start Stop EFB offers the perfect answer to all these demands. The latest technological developments such as EMS (Electrolyte Mixing system), improved separators, plates and the possibility of deeper discharges make the EGO Start Stop EFB ready for the future.



- Directly available from stock
- Available in 12 V
- Leakproof lid, maintenance-free
- Possibility of deeper discharge without loss of functionality
- Higher charge acceptance through improved separators and plates
- Larger batteries have EMS (Electrolyte Mixing system, ensuring homogeneous acid mixing)
- Better resistance to cyclic use
- Low self-discharge (Ca/Ca battery)
- Good temperature resistance (compared to AGM)
- Magic eye indicator to check battery status
- Very reliable and high quality, European production
- Very safe battery (has a check valve)
- Less water consumption thanks to lid with labyrinth system
- Standard 3 years warranty

Ecobat Art. nr.	Short order code	Voltage (V)	Capacity (Ah) C20	CCA (A EN)	LxWxH (mm)	Wiring diagram	Bottom mount	Weight (Kg)	Number per pallet	EMS (*)
560 519 058	FB1	12	60	580	242 x 175 x 190	0	B13	16,4	63	-
565 520 065	FB2	12	65	650	278 x 175 x 175	0	B13	15,9	51	-
570 512 068	FB3	12	70	680	278 x 175 x 190	0	B13	19,0	51	-
580 555 076	FB4	12	80	760	315 x 175 x 190	0	B13	21,1	42	-
590 538 085	FB5	12	90	850	353 x 175 x 190	0	B13	23,7	36	-
605 518 090	FB8	12	105	900	303 x 174 x 218	0	B1	23,3	42	-
605 519 090	FB9	12	105	900	303 x 174 x 218	1	B1	23,3	42	-
690 522 110	FB11	12	190	1100	513 x 222 x 221	3	B0	45,3	21	EMS
740 527 125	FB10	12	240	1250	517 x 275 x 241	3	B0	59,6	18	EMS



EGO Heavy Duty

Modern vans and trucks place high demands on starter batteries. Especially in urban environments with short delivery times where frequent loading and unloading is a daily activity. The EGO Heavy Duty is a highly reliable premium battery that excellently meets the most demanding energy requirements. Because it is a Sb/Ca battery, it has the advantage of low self-discharge. The truck battery is available in a complete range.



- Directly available from stock
- Good vibration resistance
- Available in 12 V
- Maintenance-free
- Low self-discharge (Sb/Ca battery)
- Features an expanded grid
- Full range

- Very reliable and qualitative
- European production
- Standard 3 years warranty

Ecobat Art. nr.	Short order code	Voltage (V)	Capacity (Ah) C20	CCA (A EN)	LxWxH (mm)	Wiring diagram	Bottom mount	Weight (Kg)	Number per pallet
610 230 074		12	110	740	282x269x230	5	B0	30,8	24
610 243 080		12	110	800	345x173x233	0	B0	25,3	36
610 202 080		12	110	800	345x173x233	0	B1	25,3	36
625 211 080		12	125	800	345x173x284	0	B0	31,8	24
635 211 085	HD7	12	135	850	509x175x208	3	B3	33,3	24
650 223 100		12	150	1000	509x175x208	3	B3	36,9	24
643 023 090	HD10	12	143	900	509x218x210	3	B3	38,7	21
635 230 085	HD11	12	135	850	513x189x220	3	B0	35,6	24
680 022 110	HD15	12	180	1100	512x223x220	3	B0	43,7	21
725 227 130	HD19	12	225	1300	518x273x240	3	B0	56,1	18



EGO EFB Heavy Duty

After the automotive sector, start-stop technology has also made its full appearance in trucks and heavy-duty vehicles. This system automatically shuts down the engine at standstill and restarts it when leaving. In trucks, start-stop batteries also have to fulfil an additional function. Besides starting the engine, they also have to provide power for the many digital and electrical applications on board.

Looking for a reliable start-stop battery for the new generation of trucks? The EGO EFB Heavy Duty excels in even the most demanding applications. Thanks to the latest technologies such as the Electrolyte Mixing System, improved separators and increased capacity, you are ready for any trip.



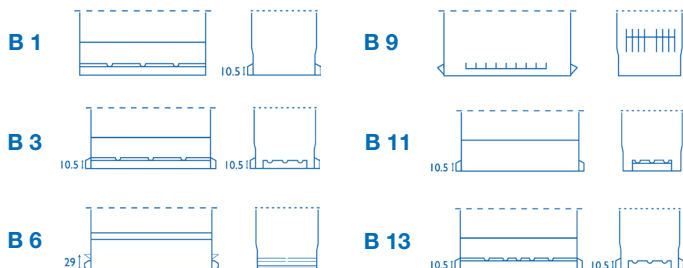
- Directly available from stock
- Available in 12V
- Suitable for Euro 6 trucks
- Increased capacity
- Renewed and improved separators
- Longer service life

- Equipped with EMS (Electrolyte Mixing system), this ensures homogeneous mixing of the acid
- Full range for trucks
- High reliability and quality, European production
- Very safe battery
- Standard 3-year warranty

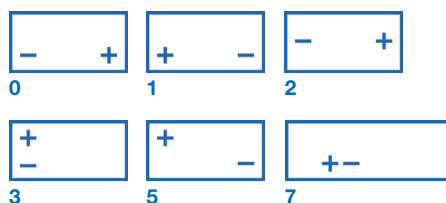
Ecobat Art. nr.	Short order code	Voltage (V)	Capacity (Ah) C20	CCA (A EN)	LxWxH (mm)	Wiring diagram	Bottom mount	Weight (Kg)	Number per pallet
690 522 110	FB11	12	190	1100	513 x 222 x 221	3	B0	45,3	21
740 527 125	FB10	12	240	1250	517 x 275 x 241	3	B0	59,6	18

Bottom mount

B 0 No bottom fixation



Wiring diagram



OPTIMA® High-performance AGM

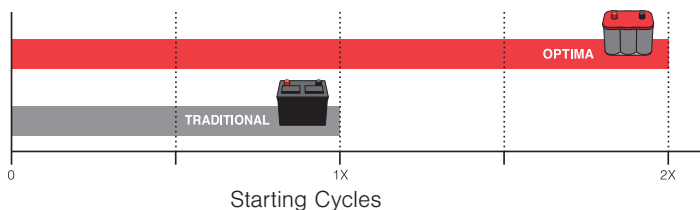
OPTIMA® high-performance AGM batteries aren't like any other batteries in the world. Their exclusive SPIRALCELL TECHNOLOGY® design is among the most advanced commercially available lead-acid battery technologies out there. It delivers an incredibly strong and clean power source that can't be touched by today's lead-acid batteries. With OPTIMA Batteries, you can count on longer-lasting battery life under both starting and deep-cycle applications. Oh, and did we mention their lead-acid batteries are vibration-resistant, spill-proof and built to last.

Red Top Engine Start

The REDTOP® battery is the ultimate starting battery designed to deliver a powerful burst of ignition power for a reliable start-up every time, whether it's used as a truck battery, automotive battery, or for other applications. The REDTOP will outperform and outlast traditional batteries in demanding cranking/starting applications.



OPTIMA
BATTERIES
THE ULTIMATE POWER SOURCE™



	Part Number	Voltage	Capacity (C20)	CCA (EN)	Dimensions (mm) L x W x H	Weight (Kg)	Layout/ Terminal
Starter	6V RT-S2.1	6V	50Ah	815	254 x 90 x 206	8.3	4/1
	12V RT-S3.7	12V	44Ah	730	237 x 171 x 197	14.4	1/1
	RT-R3.7	12V	44Ah	730	237 x 171 x 197	14.4	0/1
	RT-U3.7	12V	44Ah	730	237 x 171 x 197	14.4	1/1+SIDE
	RT-S4.2	12V	50Ah	815	254 x 175 x 200	17.2	1/1
	RT-R4.2	12V	50Ah	815	254 x 175 x 200	17.2	0/1
	RT-C4.2	12V	50Ah	815	256 x 174 x 200	17.2	2/1
	RT-U4.2	12V	50Ah	815	254 x 175 x 200	17.2	1/1+SIDE



Yellow Top Dual Purpose

The YELLOWTOP® battery has everything you need. It's one of the few true dual-purpose automotive batteries available, and performs above expectations as a tractor battery, forklift battery, or for other applications. With premium cranking power and impressive cycling capability, this heavy-duty battery is also perfect for modern accessory-loaded vehicles.

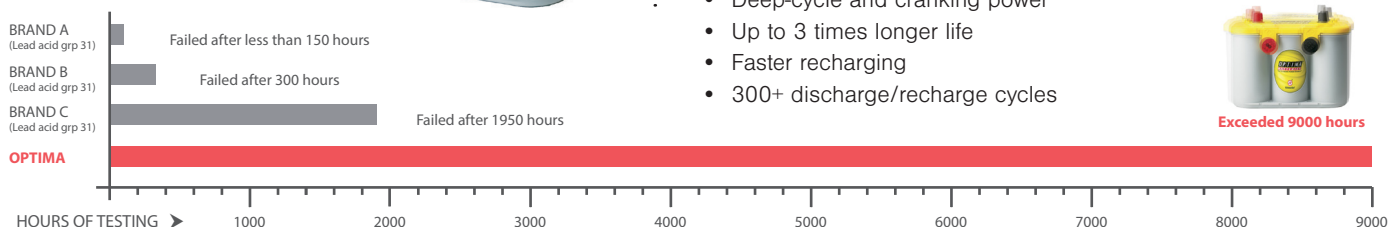
Benefits:

- Deep-cycle and cranking power
- Up to 3 times longer life
- Faster recharging
- 300+ discharge/recharge cycles



Exceeded 9000 hours

Vibration Testing:



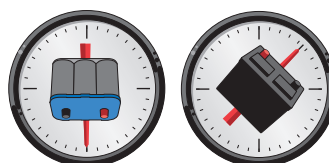
	Part Number	Voltage	Capacity (C20)	CCA (EN)	Dimensions (mm) L x W x H	Weight (Kg)	Layout/ Terminal
Deep Cycle	YT-R2.7	12V	38Ah	460	237 x 129 x 227	11.6	0/1
	YT-R2.7J	12V	38Ah	460	237 x 129 x 227	11.6	0/3
	YT-S2.7	12V	38Ah	460	237 x 129 x 227	11.6	1/1
	YT-S2.7J	12V	38Ah	460	237 x 129 x 227	11.6	1/3
	YT-R3.7	12V	48Ah	660	237 x 171 x 198	16.6	0/1
	YT-S4.2	12V	55Ah	765	254 x 174 x 200	19.9	1/1
	YT-U4.2	12V	55Ah	765	254 x 174 x 200	19.9	1/1+SIDE
	YT-S5.5	12V	75Ah	975	325 x 165 x 238	26.5	2/1

Blue Top Deep Cycle and Engine Start

Installing an OPTIMA® BLUETOP® high-performance AGM battery in your boat or RV means exceptional running time and more recharges than you'd get out of a traditional battery. It's the perfect marine battery for boats with trolling motors, extensive electronic systems, and works well as an RV battery for RVs with creature comforts that tend to drain batteries quickly. On top of providing outstanding vibration resistance, the BLUETOP's efficient power delivery and faster recharge time mean you'll spend less time worrying about your battery®

Benefits:

- Both dual-purpose and starting applications available
- Up to three times more recharges than other marine batteries
- More than 15 times the vibration resistance
- Spillproof, mountable in virtually any position
- Maintenance-free
- Optimal starting power (Dual purpose and starting applications available)
- Works well as a boat battery or RV battery



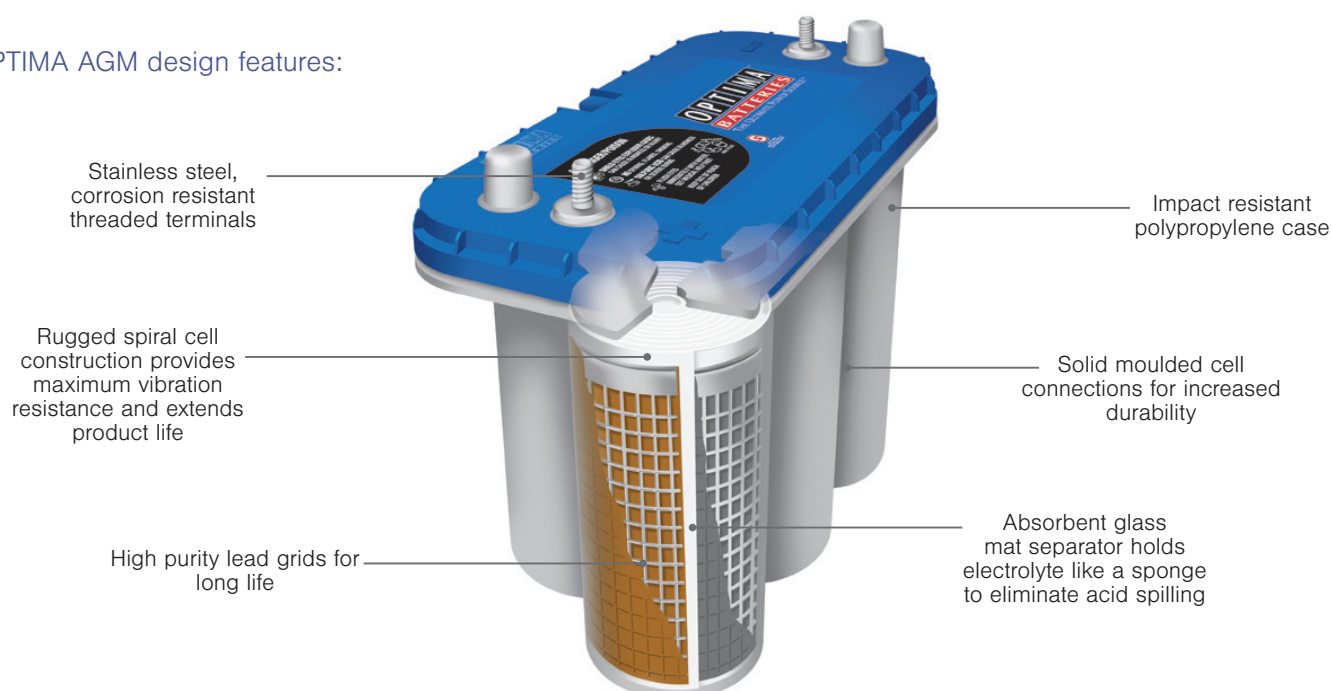
Unlike conventional battery types, Optima batteries can be mounted in almost any position



Dual Purpose

Part Number	Voltage	Capacity (C20)	CCA (EN)	Dimensions (mm) L x W x H	Weight (Kg)	Layout/ Terminal
BTDCM4.2	12V	55Ah	765	255 x 175 x 200	20.6	1 DT
BTDCM5.0	12V	66Ah	845	309 x 172 x 221	24.4	2 DT
BTDCM5.5	12V	75Ah	975	325 x 165 x 238	27.9	2 DT
BTSLIM4.2	12V	50Ah	815	254 x 175 x 200	18.4	1 DT

OPTIMA AGM design features:



ODYSSEY® Batteries

Whatever you need a battery for, it has got to be one that you can trust and rely on when things get tough - whether on the road, on track, in the mountains or out at sea.

With over a million sold and used worldwide, you can be assured that every ODYSSEY® battery, engineered with Pure Power TPPL Technology, will deliver up to twice the power and three-times the life of any other conventional battery on the market today!



ODYSSEY® Power & Motorsports (ODS)

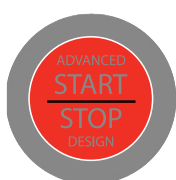
With a pedigree and reputation known across the Power & Motorsports world, ODYSSEY® Power & Motorsports (ODS) batteries provide concentrated extreme dual-purpose power while supplying exceptional reliability, service life and deep-



Typical applications but can be used for many others where size and fitments allow.

12 V Starter

Part Number	CCA (SAE)	Capacity (C20)	RC Mins	PHCA(2) (5 sec.)	Dimensions (mm) L x W x H	Weight (Kg)	Terminal Type
ODS-AGM8E (PC310)	100 A	8Ah	9	310A	138 x 86 x 99	2.7	M4 Female Thread
ODS-AGM15L (PC545)	150A	13Ah	18	460A	176 x 84 x 124	5.2	M6 Female Thread
ODS-AGM15LMJ (PC545MJ)	150A	13Ah	18	460A	178 x 86 x 125	5.2	M6 Female Thread
ODS-AGM16B (PC535)	200A	14Ah	21	535A	170 x 99 x 158	5.4	Brass M6 side terminals
ODS-AGM16L (PC680)	170A	16Ah	24	520A	182 x 76 x 162	7.0	M6 Female Thread†
ODS-AGM16LMJ (PC680MJ)	170A	16Ah	24	520A	185 x 79 x 163	7.0	M6 Female Thread†
ODS-AGM16CL (PC625)	220A	18Ah	26	540A	170 x 99 x 177	6.0	Brass M6 side terminals
ODS-AGM28 (PC925L)	330A	28Ah	48	900A	167 x 176 x 119	10.8	M6 Female Thread†
ODS-AGM28L (PC925)	330A	28Ah	48	900A	167 x 176 x 119	10.8	M6 Female Thread†
ODS-AGM28LMJA (PC925MJT)	330A	28Ah	48	900A	169 x 179 x 148	10.8	SAE with 3/8-16" Female Thread
ODS-AGM30E (PC950)	400A	34Ah	60	950A	250 x 97 x 156	9.1	M6 Stud
ODS-AGM42L (PC1200)	540A	42Ah	78	1200A	198 x 166 x 163	17.3	M6 Female Thread†
ODS-AGM42LMJ (PC1200MJ)	540A	42Ah	78	1200A	200 x 169 x 164	17.3	M6 Female Thread†
ODS-AGM40E (PC1100)	500A	45Ah	87	1100A	250 x 97 x 206	12.5	M6 Stud
ODS-AGM70 (PC1700)	810A	68Ah	142	1550A	331 x 168 x 168	27.6	M6 Female Thread†
ODS-AGM70A (PC1700T)	810A	68Ah	142	1550A	331 x 168 x 197	27.6	SAE with 3/8-16" Female Thread
ODS-AGM70MJ (PC1700MJ)	810A	68Ah	142	1550A	331 x 168 x 169	27.6	M6 Female Thread†



ODYSSEY® Marine

Especially designed for marine applications, although can be used in other applications where size and fitments allow.

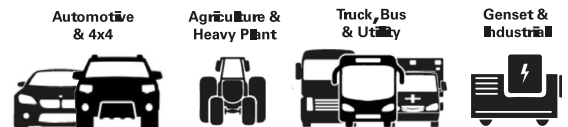


12 V Starter

Part Number	CCA (SAE)	Capacity (C20)	RC Mins	PHCA(2) (5 sec.)	Dimensions (mm) L x W x H	Weight (Kg)	Terminal Type
ODP-AGM34M (34M-790)	710 A	60Ah	120	1300A	275 x 172 x 201	21.6	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)
ODP-AGM24M (24M-725)	725A	63Ah	155	1300A	276 x 172 x 225	23.3	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)
ODX-AGM34M (34M-PC1500ST)	850A	68Ah	134	1500A	276 x 172 x 202	22.5	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)
ODP-AGM27M (27M-850)	850A	85Ah	182	1500A	316 x 147 x 225	27.1	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)
ODP-AGM31M (31M-925)	925A	87Ah	190	1750A	330 x 172 x 240	32.7	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)
ODX-AGM31M (31M-PC2150ST)	1150A	100Ah	205	2150A	330 x 173 x 239	35.3	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)
ODS-AGM6M (PC2250)	1225A	114Ah	240	2250A	286 x 269 x 233	39.0	DIN and 3/8-16" Stud
ODP-AGMDINB (629-DIN B-1300)	1300A	170Ah	370	2400A	518 x 226 x 218	53.3	SAE
ODS-AGM470FTT (PC1800-FT)	1300A	214Ah	475	1800A	581 x 125 x 125	60.0	M10 Stud
ODP-AGMDINC (625-DIN C-1500)	1500A	220Ah	475	2700A	518 x 276 x 225	65.0	SAE

ODYSSEY® Extreme (ODX)

Where size and power matters, the ODYSSEY Extreme (ODX) battery gives you it all. With its heritage in military and specialist vehicle applications, this range is the toughest you can get – whether it's extreme terrain, temperatures or power demand, or all of them combined, the ODX range will deliver.



Typical applications but can be used for many others where size and fitments allow.

12 V Starter

Part Number	CCA (SAE)	Capacity (C20)	RC Mins	PHCA(2) (5 sec.)	Dimensions (mm) L x W x H	Weight (Kg)	Terminal Type
ODX-AGM34 (34-PC1500)	850 A	68Ah	134	1500A	276 x 172 x 202	22.5	SAE
ODX-AGM34R (34R-PC1500)	850A	68Ah	134	1500A	276 x 172 x 200	22.5	SAE, Right Positive Terminal
ODX-AGM34 78 (34/78-PC1500)	850A	68Ah	134	1500A	276 x 172 x 200	22.5	Top SAE, SIDE 3/8" Female Thread
ODX-AGM65 (65-PC1750)	950A	74Ah	135	1750A	301 x 183 x 190	24.5	SAE
ODX-AGM31 (31-PC2150S)	1150A	100Ah	205	2150A	330 x 173 x 241	35.3	3/8-16" Stud
ODX-AGM31A (31-PC2150T)	1150A	100Ah	205	2150A	330 x 173 x 246	35.3	SAE
ODX-AGM31MJ (31-PC2150MJS)	1150A	100Ah	205	2150A	330 x 173 x 246	35.3	3/8-16" Stud

Twice the power and three-times the life of any other conventional battery

Extended Cycle Life

Up to 900 charge-discharge cycles at 50% depth of discharge (EN 50342-1) and excels down to 80% with dual purpose power to spare.

Extreme Temperature Tolerance

From a freezing -40°C up to a blistering +80°C

Massive Starting Power

Engine cranking pulses up to 2,700 amps for five seconds.

Vibration Resistant

Extreme protection against high-impact shocks and vibration.

Longer Life

8 to 12-year design life and 3 to 10-year service life.

Virtually Maintenance-Free

Sealed, Absorbed Glass Mat (AGM) advanced TPPL technology design never requires water.

Robust InterCell Connections

Up to 58% larger - these connections are cast and bonded to plates to resist vibration and eliminate internal sparking

Thin Plate Pure Lead (TPPL)

Uniquely manufactured thin plates (using pure lead) make them comparable to think plates, allowing more plates in the same space, giving better performance and more power



Tin Alloy Coated Brass Terminals

Ensure secure, corrosion-free cable connections

Compressed AGM Plate Separators

Extreme leak-free vibration resistance, even when the battery is installed on its side

Skyrich Lithium

This lithium-ion battery uses Lithium Iron Phosphate (LiFePO₄) as the positive material and graphite (C) as the negative material. A feature of a LiFePO₄ is that it has similar characteristics to a conventional battery, also in terms of safety.

The advantages are clear: only one-third the usual weight and more than 2,000 cycles according to the JIS standard.



Art code	Container	Voltage	Ah	CCA	Layout	Terminal	Bottom mount	Length	width	Height	Weight
LTX7A-BS	CTX7A-BS	12	2.4	160	1	Y5	B00	150	87	93	0.6
LTZ7-S	YTZ7-S	12	2.4	150	1	Y5	B00	113	80	85	0.6
LTX12-BS	CTX12(A)-BS	12	3.5	210	1	Y5	B00	150	87	105	0.9
LTX9-BS	CTX9-BS	12	3	180	1	Y5	B00	150	87	105	0.7
LTX14-BS	CTX14-BS	12	4	240	1	Y5	B00	150	87	93	1
LT12B-4	CT12B-4	12	5	290	1	Y5	B00	150	65	130	1.1
LT12B-4	CT14B-4	12	5	290	1	Y5	B00	150	65	130	1.1
LTX14L-BS	YTX14L-BS	12	5	260	1	Y5	B00	134	75	133	1.1
LTZ14-S	YTZ14-S	12	5	290	1	Y10	B00	150	87	93	1.1
LTZ19-S	YTZ19-S	12	7.5	450	1	Y10	B00	181	77	170	1.7
LTX20L-BS	CTX20L-BS	12	7	380	1	Y5	B00	175	87	130	1.7



Ecobat Light Cycle (ELC) VRLA batteries

ELC series is a general purpose battery with 10 years design life in float service. It meets with IEC, JIS and BS standards. With up-dated AGM valve regulated technology and high purity raw materials, the ELC series battery maintains high consistency for better performance and reliable standby service life. It is suitable for telecom systems, UPS/EPS, medical equipment, emergency light and security system applications.

- Using oxygen recombination technology: maintenance-free
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- ABS material: increase the strength of battery container. (Flame-retardant ABS is optional)
- High purity raw material: ensure low self discharge rate
- Extremely high sealing reaction efficiency, no acid mist is deposited, safe and environmentally friendly, and pollution-free.
- Battery cycle life: > 300 cycles (100% DoD) & up to 600 cycles with 50% DoD
- Price-friendly



Part Number	Voltage	AhC20	Length	Width	Height	Terminal	Weight (kg)	Pallet qty
ELC6-1.2	6	1.2	97	24	52	F1	0.31	1200
ELC6-3.2	6	3.2	134	34.5	61	F1	0.65	600
ELC6-4.5	6	4.5	70	47	107	F1	0.8	600
ELC6-7	6	7.2	151	34	101	F1	1.11	420
ELC6-10	6	10	151	50	98	F1	1.67	420
ELC6-12	6	12	151	50	98	F1	1.86	264
ELC6-20	6	20	162	83	126	F3	3.5	264
ELC12-1.3	12	1.3	97	43	58	F1	0.6	420
ELC12-2.3	12	2.3	178	35	66	F1	0.87	420
ELC12-2.9	12	2.9	79	56	106	F2	1.3	420
ELC12-3.2	12	3.2	134	67	67	F1	1.3	420
ELC12-5	12	5	90	70	107	F2	1.54	420
ELC12-7	12	7.2	151	65	101	F2	2.15	360
ELC12-7	12	7	151	65	101	F1	2.15	360
ELC12-9	12	9	151	65	101	F2	2.45	360
ELC12-12	12	12	152	99	102	F2	3.4	200
ELC12-18	12	18	181	77	167	M6	5.6	128
ELC12-20	12	20	181	77	167	M6	6.1	128
ELC12-28	12	28	165	176	125	M6	8.4	80
ELC12-35	12	35	194	130	167	M6	10	75
ELC12-45	12	45	198	166	171	M6	13.5	60
ELC12-55	12	55	229	138	212	M6	16	60
ELC12-65	12	65	349	166	174	M6	23	48
ELC12-80	12	80	260	169	215	M6	24.2	36
ELC12-90	12	90	349	166	174	M6	24.3	48
ELC12-100	12	100	305	169	215	M8	29.1	36
ELC12-110	12	110	328	172	220	M8	31	36
ELC12-120	12	120	328	172	222	M8	32	36
ELC12-140	12	140	341	172	285	M8	40	24
ELC12-160	12	160	483	170	240	M8	46	24
ELC12-200	12	200	530	209	219	M8	53	18
ELC12-240	12	240	522	240	220	M8	64.9	12
ELC12-260	12	260	520	268	225	M8	73.2	12

Ecobat Deep-Cycle (EDC) Batteries

Deep Cycle battery is specially designed for frequent cyclic discharge with 12 years floating design life. By using strong grids and specially designed active material, the EDC series offers excellent recovery after deep discharge under frequent cyclic discharge use. With a lean design, the batteries are sealed, maintenance-free, and can be installed in any direction.

It is suitable for UPS, solar & wind energy, telecom system, electric power system, electric vehicles, golf cars, boat, caravan, UPS, solar systems and so on.



Ecobat Model	USA-Model	V	AhC20	AhC5	L	W	H	Terminal	Weight (Kg)	Q-Pallet
EDC2-200		2	200	162	173	111	336	M8	14.1	24
EDC2-300		2	300	264	171	151	330	M8	18	24
EDC6-225	GC-105	6	225	182	260	180	275	M8	30.5	36
EDC6-245	DIN	6	245	200	245	187	275	M8/AP	32	36
EDC6-335	GC305	6	335	275	295	178	368	DT	46	22
EDC6-400	L16	6	400	320	295	178	425	DT	56	18
EDC6-450	L16	6	450	345	295	178	425	DT	57	18
EDC8-200	GC875	8	200	170	260	182	275	M8	38	24
EDC12-07		12	7.2	5	151	65	94	F2	2.25	360
EDC12-14		12	14	12	152	99	101	F2	4.2	200
EDC12-20		12	20	17	181	77	167	M5	6.1	128
EDC12-24		12	24	18	181	77	167	M5	6.1	128
EDC12-24		12	24	18	166	175	126	M6	8.5	80
EDC12-26		12	26	20	165	126	179	M6	8.7	80
EDC12-35		12	35	28	196	130	165	M6	10.8	75
EDC12-40		12	45	35	198	166	174	M6	14.5	60
EDC12-55		12	55	47	229	138	208	M6	18.3	60
EDC12-70		12	70	63	350	167	178	M6	23.5	48
EDC12-75		12	75	65	260	169	215	M6	25	48
EDC12-85	X24	12	85	76	260	169	215	M6	26.5	48
EDC12-100	X27	12	110	90	307	169	216	M8	30.5	36
EDC12-110	X31	12	130	105	331	176	220	M8	33.5	36
EDC12-135		12	140	115	341	173	288	M8/AP	39.5	24
EDC12-150		12	160	125	484	171	241	M8	46	24
EDC12-200	4D	12	200	160	532	206	222	M8	59	18
EDC12-230	4D	12	230	185	522	240	25	M8	65	18
EDC12-270	8D	12	270	220	520	268	226	M8	77.8	12

Ecobat Lead Crystal (ECLC) Deep Cycle Batteries

Lead crystal batteries are an upgraded version of deep cycle batteries, it combined with high absorbent mat (AGM), thick plates cast from high purity lead calcium selenium alloy, and a crystalline SiO₂ electrolyte. SiO₂ electrolyte that replaces the traditional acid electrolyte is the essence of this new lead crystal technology. This eventually results in a safer, high performing and environmentally friendlier battery.



- Maintenance free alternative for AGM & GEL
- Environmentally friendly and Price-friendly
- Excellent performance in (extreme) low temperatures. (-30 to +60°C)
- Extremely low self-discharge and can be stored for more than one year without any top-up charging prior to use.
- Better cycle life: > 1300 cycles (50% DoD) & up to 900 cycles with 80% DoD
- Price-friendly

Ecobat Number	Nominal Voltage (V)	Rated Capability @ C20	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Approx. Weight (Kg)	Terminal type	Quantity of Pallet(PCS)
ECLC12-7.2	12	7.2/20HR	151	65	94	100	2,13	F2	420
ECLC12-9	12	9/20HR	151	65	94	100	2,4	F2	360
ECLC12-14	12	14/20HR	152	99	96	102	3,8	F2	200
ECLC12-24-2	12	24/20HR	181	77	167	167	6,2	M5	144
ECLC6-200	6	200/20HR	306	168	220	226	30,1	M8	32
ECLC6-225	6	225/20HR	260	180	269	275	29,6	M8	32
ECLC6-245	6	220/20HR	245	187	269	275	31,6	M8/AP	30
ECLC6-250	6	250/20HR	260	180	265	272	34,7	M8	28
ECLC6-310	6	310/20HR	295	178	346	350	46,2	M8/DT	20
ECLC6-335	6	335/20HR	295	178	346	365	46,8	DT	20
ECLC6-400	6	400/20HR	295	178	404	424	55,5	DT	17
ECLC6-450	6	450/20HR	295	178	404	424	57,0	DT	17
ECLC8-185	8	185/20HR	260	182	266	271	34,2	M8	24
ECLC8-200	8	200/20HR	260	182	295	300	38,2	M8	24
ECLC12-24	12	24/20HR	166	175	126	126	8,4	M6	96
ECLC12-26	12	26/20HR	165	126	174	174	8,1	M6	96
ECLC12-35	12	35/20HR	196	130	155	167	10,6	M6	100
ECLC12-45	12	45/20HR	198	166	174	174	14,3	M6	60
ECLC12-55	12	55/20HR	229	138	208	212	16,1	M6	60
ECLC12-70	12	70/20HR	350	167	178	178	23,4	M6	42
ECLC12-75	12	75/20HR	260	169	211	215	25,1	M6	32
ECLC12-85	12	85/20HR	260	169	211	215	26,2	M6	32
ECLC12-90	12	90/20HR	307	169	211	215	28,3	M6	32
ECLC12-100	12	100/20HR	307	169	211	215	30,3	M6	32
ECLC12-110	12	130/20HR	328	172	217	222	32,7	M8	28
ECLC12-120	12	120/20HR	407	174	208	233	39,5	M8	24
ECLC12-135	12	140/20HR	341	173	283	287	41	M8	24
ECLC12-150	12	160/20HR	484	171	241	241	45,7	M8	20
ECLC12-180	12	180/20HR	532	206	215	219	56,2	M8	16
ECLC12-200	12	210/20HR	532	206	215	219	58,6	M8	16
ECLC12-220	12	220/20HR	522	240	219	223	65,2	M8	12
ECLC12-250	12	250/20HR	520	268	203	207	71,3	M8	12
ECLC12-270	12	270/20HR	520	268	220	224	77,3	M8	12

Ecobat Power Cranking (EPC) batteries

Ecobat Power Cranking batteries are dual purpose, maintenance free batteries for high start capacity and light cycle applications. Making

these popular for start boosters, marine applications, military and farm machinery, and car Hi-fi's.



Applications

- Booster/starter
- Starter: Start/Stop Car;
Antique Car; Boats;
RV; Farm machinery;
Military vehicles;
Trucks
- Boat thruster
- Hi-Fi car

Full Throttle Battery	Rated Voltage (V)	CCA (Amps)	Rated capacity (AH)	Length	Width	Height	Total Height	Unite Weight (Kg)	Quantity of Pallet(PCS)
EPC12-22-230	12	230	22/20HR	181	77	167	167	6,3	144
EPC12-35-438	12	438	35/20HR	196	130	155	167	11	75
EPC12-110-1000	12	1000	110/20HR	328	172	215	235	33,2	30
EPC12-225-1450	12	1450	225/20HR	520	268	204	208	70	12

Ecobat ECSG batteries

VRLA Gel battery are pure gel batteries with 12 years floating design life. It adopts deep cycle design, 4BS lead paste technology, unique corrosion-resistant grid alloy, battery with high efficiency discharge performance and long cycle life. High purity raw material, low self-discharge rate. It is ideal for standby and frequent cyclic discharge applications under extreme environments

- All purpose
- Solar or Wind Power System
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus & equipment
- Communication power supply



ECOBAT Part Number	Nominal Voltage (V)	Rated Capability @ C100	Rated Capability @ C20	Rated Capability @ C10	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Approx. Weight (Kg)	Terminal type	Quantity of Pallet(PCS)
ECSG12-31	12	31/100HR	28/20HR	26/10HR	166	175	126	126	8,4	M6	96
ECSG12-40	12	40/100HR	35/20HR	33/10HR	196	130	155	167	10,1	M6	75
ECSG12-46	12	46/100HR	40/20HR	38/10HR	198	166	174	174	12,4	M7	60
ECSG12-50	12	50/100HR	45/20HR	42/10HR	198	166	174	174	13	M8	60
ECSG12-60	12	60/100HR	55/20HR	50/10HR	229	138	208	212	15,9	M6	60
ECSG12-78	12	78/100HR	70/20HR	65/10HR	350	167	178	178	20,3	M6	48
ECSG12-84	12	84/100HR	75/20HR	70/10HR	260	169	211	215	21,8	M6	45
ECSG12-90	12	90/100HR	80/20HR	75/10HR	260	169	211	215	22,2	M6	42
ECSG12-96	12	96/100HR	85/20HR	80/10HR	331	174	214	219	25	M6	36
ECSG12-108	12	108/100HR	96/20HR	90/10HR	331	174	214	219	28	M8	32
ECSG12-120	12	120/100HR	107/20HR	100/10HR	331	174	214	219	29,2	M8	32
ECSG12-144	12	144/100HR	128/20HR	120/10HR	407	174	208	233	34,2	M8	28
ECSG12-180	12	180/100HR	160/20HR	150/10HR	484	171	241	241	43,7	M8	22
ECSG12-216	12	216/100HR	192/20HR	180/10HR	532	206	215	219	52,4	M8	18
ECSG12-240	12	240/100HR	213/20HR	200/10HR	522	240	219	224	58,5	M8	16
ECSG12-300	12	300/100HR	267/20HR	250/10HR	520	268	220	225	70,2	M8	12

Ecobat ECS batteries

VRLA Agm batteries with good quality AGM separator, high purity raw materials, tight assembly technology, unique corrosion resistance grid alloy.

With a gas recombination efficiency of 99%, such batteries are completely maintenance free operation, non-spillable, no gassing, no need for replenishment. They can be used at vertical or horizontal orientation.



ECOBAT Part Number	Nominal Voltage (V)	Rated Capability @ C100	Rated Capability @ C20	Rated Capability @ C10	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Approx. Weight (Kg)	Terminal type	Quantity of Pallet(PCS)
ECS6-550	6	550/100HR	450/20HR	/	295	178	404	424	57,0	DT	17
ECS12-5	12	/	5/20HR	/	90	71	101	107	1,58	F2	420
ECS12-7.2	12	/	7.2/20HR	/	151	65	94	100	2,13	F2	420
ECS12-7	12	/	7.0/20HR	/	151	65	94	100	2,03	F1	420
ECS12-9	12	/	9/20HR	/	151	65	94	100	2,4	F2	360
ECS12-12	12	/	12/20HR	/	152	99	96	102	3,38	F2	200
ECS12-14.5	12	/	15/20HR	/	152	99	96	102	3,8	F1/F2	200
ECS12-18	12	/	18/20HR	/	181	77	167	167	5,18	M5	144
ECS12-20	12	/	20/20HR	/	181	77	167	167	6	M6	144
ECS12-31	12	31/100HR	28/20HR	26/10HR	166	175	126	126	8,3	M6	96
ECS12-40	12	40/100HR	35/20HR	33/10HR	196	130	155	167	10	M6	75
ECS12-46	12	46/100HR	40/20HR	38/10HR	198	166	174	174	12,3	M7	60
ECS12-50	12	50/100HR	45/20HR	42/10HR	198	166	174	174	12,9	M8	60
ECS12-60	12	60/100HR	55/20HR	50/10HR	229	138	208	212	15,8	M6	60
ECS12-78	12	78/100HR	70/20HR	65/10HR	350	167	178	178	20,2	M6	48
ECS12-84	12	84/100HR	75/20HR	70/10HR	260	169	211	215	21,7	M6	45
ECS12-90	12	90/100HR	80/20HR	75/10HR	260	169	211	215	22	M6	42
ECS12-96	12	96/100HR	85/20HR	80/10HR	331	174	214	219	24,8	M6	36
ECS12-108	12	108/100HR	96/20HR	90/10HR	331	174	214	219	27,8	M8	32
ECS12-120	12	120/100HR	107/20HR	100/10HR	331	174	214	219	29	M8	32
ECS12-144	12	144/100HR	128/20HR	120/10HR	407	174	208	233	34	M8	28
ECS12-180	12	180/100HR	160/20HR	150/10HR	484	171	241	241	43,5	M8	22
ECS12-216	12	216/100HR	192/20HR	180/10HR	532	206	215	219	52,2	M8	18
ECS12-240	12	240/100HR	213/20HR	200/10HR	522	240	219	224	58,2	M8	16
ECS12-300	12	300/100HR	267/20HR	250/10HR	520	268	220	225	70	M8	12
ECS12-95	12	95/100HR	/	/	260	169	211	215	25,1	DT	32
ECS12-116	12	116/100HR	/	/	307	169	211	215	30,3	DT	32
ECS12-128	12	128/100HR	/	/	328	172	215	235	32,7	DT	30
ECS12-230	12	230/100HR	/	/	532	206	215	219	58,4	DT	16
ECS12-240	12	240/100HR	/	/	381	179	350	370	61	LT	16
ECS12-290	12	290/100HR	/	/	521	268	220	224	77,1	LT	12

Lithium-Ion Batteries

The Ecobat 12V lithium-ion phosphate deep cycle batteries are designed as a drop-in replacement for all the batteries with the BCI Group 31 form factor. With the built-in Bluetooth feature (EBL100), you can monitor the battery's state of charge. The RS485 and CANBUS communication protocol allows you to build your own high-end smart minigrid system.

The IP66 rated enclosure, keeps the battery safe from leaks and dirt. The battery can be opened for future maintenance and modifications, which gives the users the maximum range of creativity.

With more than 6000 cycle charges (80% DOD), with high energy density, intelligent features, plus protection and upgradable design, Ecobat Lithium is your best choice to build your own intelligent grid system.



Part Number	Voltage	Capacity	Energy	Dimensions (mm)	Internal Resistance	Charge Voltage	Discharge Cut-off Voltage	Standard Current Charge	Max Current Charge	Standard Discharge Current	Max Discharge Current	Peak Discharge Current
EBL10	12.8V	10Ah	128Wh	151 x 100 x 104	80	14.4V	8V	2A	10A	2A	10A	20A
EBL20	12.8V	20Ah	256Wh	181 x 77 x 170	30	14.4V	8V	4A	20A	10A	20A	40A
EBL33	12.8V	33Ah	422Wh	196 x 132 x 165	100	14.6V	8V	7.2A	36A	7.2A	36A	66A
EBL40	12.8V	40Ah	512Wh	196 x 166 x 169	20	14.4V	8V	8A	40A	20A	40A	80A
EBL50	12.8V	50Ah	640Wh	229 x 138 x 208	20	14.4V	8V	25A	50A	25A	50A	100A
EBL75	12.8V	75Ah	960Wh	260 x 168 x 212	15	14.4V	8V	15A	75A	37.5A	75A	150A
EBL90	12.8V	90Ah	1280Wh	307 x 172 x 212	10	14.4V	9.2V	20A	100A	60A	100A	200A
EBLU1R	12.8V	48Ah	614.4Wh	195 x 132 x 183	20	14.4V	10V	9.6A	25A	9.6A	25A	80A
EBL100D	12.8V	100Ah	1280Wh	355 x 175 x 190	10	14.4V	9.2V	20A	100A	60A	100A	200A
EBL100	12.8V	100Ah	1280Wh	355 x 175 x 195	5	14.4V	10V	20A	100A	20A	150A	350A





The EDrive Traction Block is a superb battery standing out in the range by its combination of a very high capacity with a maximal lifespan. High performance of up to 1200 cycles is easily achieved. This is mainly attributable to the unique tubular plate technology, a powerful system developed specifically for blocks. These batteries are also easy to handle and simple to maintain.

Advantages of the EDrive Traction Block

- Immediately available from stock
- The longest lifespan
- The highest capacity
- 1200 cycles with 80% discharge
- Available as 6, 8 and 12V
- Ideal for heavy and protracted use
- Complete range
- Highly reliable and premium quality
- Tubular plate technology specially developed for blocks
- Good resistance to high currents
- Already the benchmark for years
- European production
- Standard 2-year guarantee



Type	Voltage (V)	Capacity C ₅	Capacity C ₂₀	Length (mm)	Width (mm)	Height (mm)	Total height (mm)	Weight (kg)	Pallet quan- tity	Terminal type	BFS Possible
5 PzB 240	6	185	240	260	180	252	275	29	38	5AP	x
6 PzB 260	6	200	260	260	180	252	275	31	38	5AP	x
6 PzS 195	6	195	250	242	190	252	275	30	36	5AP	x
6 PzS 205	6	205	270	242	190	252	275	32	38	5AP	x
7 PzS 320	6	320	425	305	180	333	365	48	28	5AP	x
5 PzS 160	8	160	210	260	180		275	29	48	AP	
2 PzS 56	12	56	75	265	175		210	20	60	AP	
3 PzS 54	12	54	72	278	175	190	190	18	64	0AP	
3 PzS 75	12	75	95	308	174		220	19	56	AP	
3 PzS 85	12	85	110	308	175		225	27	56	0AP	
4 PzS 72	12	72	96	352	175		190	23	48	AP	
4 PzS 90	12	90	120	345	170		235	29	-	0AP	
4 PzS 118	12	118	157	345	170	260	285	38.5	36	0AP	x
6 PzS 126	12	126	167	510	175	205	225	40	32	4AP	x
7 PzS 150	12	150	200	510	222		225	46	28	AP	x
10 PzS 180	12	180	240	517	270		240	68	18	AP	x



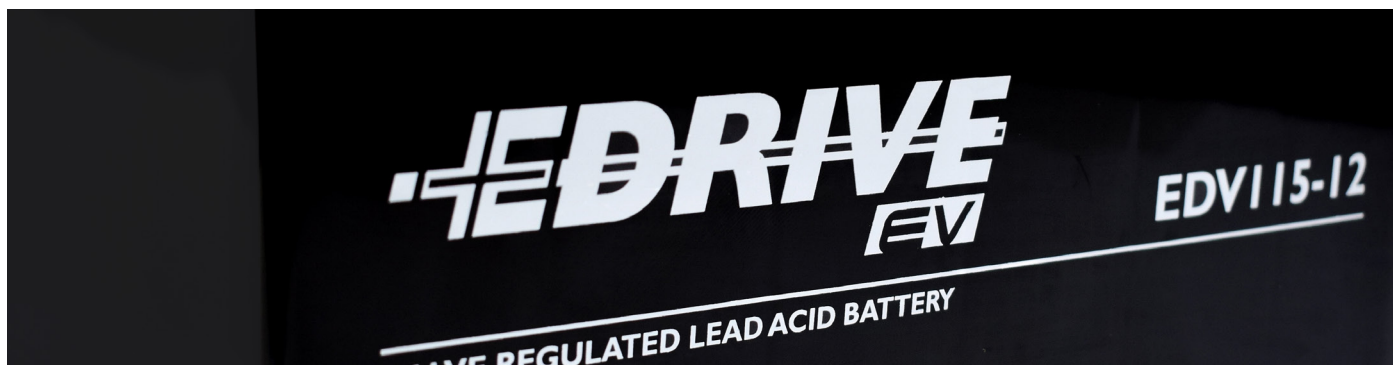
If you are looking for a maintenance-free battery with maximum usability, EDrive Gel block is possibly the best choice. This traction battery is suitable for the most demanding applications and guarantees a lifespan as many as 700 cycles. Just like other gel batteries you can also depend on the EDrive Gel's reliable, clean and safe energy.

Advantages of the EDrive Gel block

- Immediately available from stock
- Maintenance-free, clean and safe energy
- Gel technology
- 700 cycles
- Available as 6 and 12V
- Ideal for intensive use
- Excellent price/quality ratio
- Highly reliable and premium quality
- Also suitable for solar applications
- European production
- Standard 2-year guarantee



Type	Voltage (V)	Capacity C ₅ (Ah)	Capacity C ₂₀ (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
6 DG 180	6	180	240	244	192	275	34,1
6 DG 250	6	250	335	305	180	365	54,3
12 DG 32	12	32	44	205	175	190	15,7
12 DG 42	12	42	57	240	175	190	19,9
12 DG 52	12	52	70	278	175	190	22,5
12 DG 63	12	63	84	352	175	190	28,3
12 DG 65	12	65	86	308	175	225	29
12 DG 85	12	85	100	345	170	235	35,1
12 DG 105	12	105	140	345	170	285	42,7
12 DG 137	12	137	170	513	218	215	60,5
12 DG 165	12	165	200	517	270	240	71



EDRIVE

The EDrive EDV offers you the ease of use of a maintenance-free battery but at the same time the performance and life span of a Deep Cycle battery. The entire EDV range is sold under our own EDrive label. This allows you to enjoy an excellent price-quality ratio. The AGM battery can be used for demanding applications in both recreational and industrial environments. From cleaning machines to aerial work platforms and from golf carts to all kinds of electric vehicles. With the EDrive EDV, you are definitely choosing a top battery.

Advantages EDrive EDV

- Directly available from stock
- Maintenance-free, clean and safe energy
- AGM technology
- 700 cycles
- Available in 6, 8 and 12V
- Ideal for intensive use
- Excellent quality-price ratio
- Very reliable and qualitative
- Standard 18 months warranty



Type	On stock	Voltage (V)	Capacity C ₅ (Ah)	Capacity C ₂₀ (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Pallet quantity	Pool type & Lay-out
EDV240-6	x	6	192	240	260	180	268	32	28	5 F17
EDV330-6	x	6	272	330	295	178	364	44,5	22	5 DT
EDV425-6	x	6	351	425	295	178	423	57	22	5 DT
EDV215-8	x	8	170	215	260	182	300	38	28	1 F17
EDV12-12	x	12	9,4	12	151	98	101	4,2	264	3 F1
EDV19-12	x	12	11	19	181	77	167	5,9	192	0 F12
EDV23-12	x	12	19	23	181	77	167	6,2	192	0 F13
EDV26-12	x	12	20	26	176	166	125	8,8	120	0 F12
EDV35-12	x	12	28	35	195	130	168	10,2	108	1 F13
EDV50-12	x	12	38	50	198	166	169	14,6	72	0 F13
EDV60-12	x	12	48	60	229	138	216	18	63	1 F13
EDV80-12	x	12	64	80	260	169	218	23,5	48	1 F13
EDV97-12	x	12	77	97	307	169	215	30	36	1 F17
EDV105-12	x	12	85	110	307	169	215	31	36	1 F17
EDV115-12	x	12	93,5	115	328	172	222	32	36	1 F17
EDV210-12		12	176	210	522	240	224	62,5	18	4 F17

GF-Y Series

The GF-Y series of blocs are particularly suitable for the leisure and mobility market. Applications range from electric boats and golf carts to wheelchairs and scooters.

Features:

- Maintenance free (no topping up) motive power batteries in gel technology
- Very low gassing
- Short recharge time
- Low self discharge
- Robust, safe and reliable
- 450 cycles according to EN 60 254-1 / IEC 254-1 with 75% DOD



GF-V Series

The GF-V range of blocs are suitable for hard industrial use. This includes applications for floor scrubber dryers, advanced guided vehicles, marine, mobile elevating work platforms, walk behind pallet trucks, electric cars and buses.

Features:

- Maintenance free (no topping up) motive power batteries in gel technology
- Very low gassing
- Low self discharge
- Robust, safe and reliable
- 700 cycles according to EN 60 254-1 / IEC 254-1 with 75% DOD



Deep Cycle

Part Number		Voltage	Capacity (C20)	Dimensions (mm) L x W x H	Weight (Kg)	Layout/ Terminal
GF-Y SERIES						
12V	GF12014YF	12V	15Ah	181 x 76 x 167	6.0	0/4
	GF12022YF	12V	24Ah	167 x 176 x 126	9.6	0/4
	GF12025YG	12V	28Ah	197 x 132 x 180	11.1	1/4
	GF12033YG	12V	38Ah	210 x 175 x 175	14.6	0/4
	GF12044Y	12V	50Ah	261 x 135 x 230	19.0	0/1
	GF12051Y1	12V	56Ah	278 x 175 x 190	20.8	0/1
	GF12052Y0	12V	60Ah	261 x 170 x 178	19.8	F-M6/2
	GF12063Y	12V	70Ah	261 x 171 x 210	23.0	1/FEMALE
	GF12065Y	12V	78Ah	353 x 175 x 190	26.8	0/1
	GF12072Y	12V	80Ah	330 x 171 x 236	30.0	1/1
GF12094Y	12V	110Ah	286 x 269 x 230	38.5	7/1	
GF-V SERIES						
6V	GF06180V	6V	200Ah	246 x 192 x 275	31.0	0/1
	GF06240V	6V	270Ah	311 x 183 x 358	47.0	0/1
12V	GF12050V	12V	55Ah	278 x 175 x 190	19.0	0/1
	GF12076V	12V	86Ah	330 x 171 x 236	28.8	1/1
	GF12090V	12V	98Ah	513 x 189 x 219	36.5	3/1
	GF12105V	12V	120Ah	345 x 174 x 283	37.5	0/1
	GF12110V	12V	120Ah	513 x 223 x 219	45.5	3/1
	GF12160V	12V	196Ah	518 x 276 x 238	62.5	3/1

Unlike conventional liquid acid batteries, GF Motive Power batteries do not need to be recharged every 3 months. Due to their extremely low self-discharge, they will still have 80% of their nominal capacity after 6 months idle time, and over 50% after 2 years – without recharging.



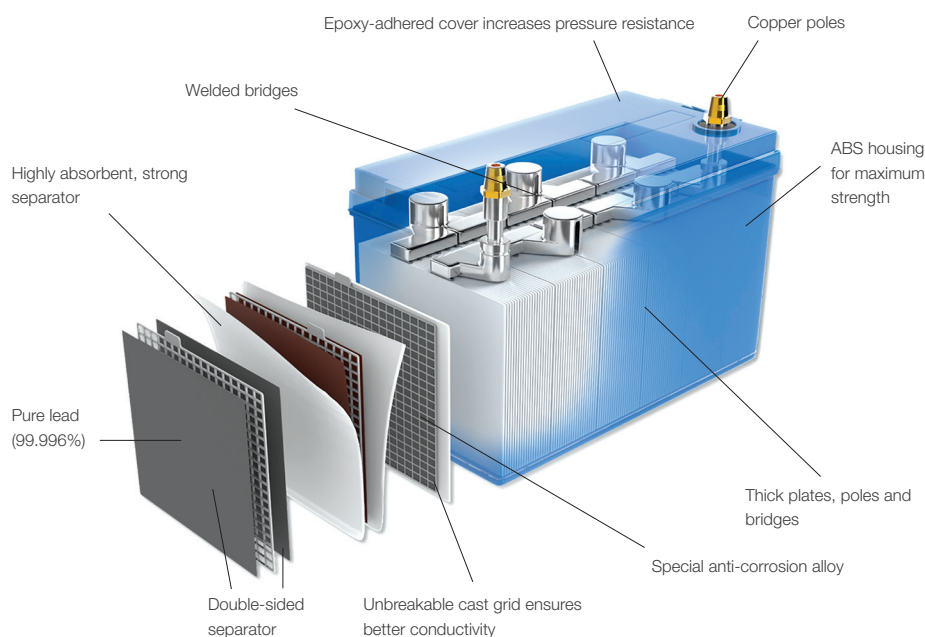
Fullriver DC batteries are the smart choice for demanding applications in both leisure and industrial environments. The DC series offers the performance and lifespan that you would expect of a Deep-cycle battery, and this combined with the convenience of a maintenance-free battery. An additional advantage of these AGM batteries is that you can insert them in any position, except upside down.

Advantages Fullriver DC

- Immediately available from stock
- Maintenance-free, clean and safe energy
- AGM technology
- 600 cycles
- Available as 6, 8 and 12V
- Ideal for intensive use
- Very extensive range
- Highly reliable and premium quality
- Standard 18-month guarantee



What makes Fullriver DC a premium AGM battery?



Type	Voltage (V)	Capacity C5	Capacity C20	Length (mm)	Width (mm)	Height (mm)	Total height (mm)	Weight (kg)	Pallet quantity	Pool type & Lay-out
DC200-6	6	165	200	306	169	220	226	30	36	5 M8
DC220-6		180	220	306	174	220	226	32,7	36	5 M8
DC224-6A		179	224	260	180	245	251	29,8	42	5 M8
DC245-6		198	245	244	190	275	275	32,3	30	5 AP
DC250-6		204	250	262	181	266	272	34,5	28	6 M8
DC335-6		274	335	295	178	346	366	46,7	22	5 DT
DC400-6		340	415	295	179	404	424	55,7	22	5 DT
DC160-8A	8	131	160	260	182	268	272	31,7	28	1 M8
DC180-8A		148	180	260	182	268	272	36,6	28	1 M8
DC200-8		164	200	260	182	295	299	40	28	1 M8
DC7-12	12	5,7	7	151	65	95	101	2,7	420	3 F1
DC10-12A		8,2	10	151	65	111	117	3,3	336	3 F1
DC12-12		9,8	12	151	99	95	101	4,2	264	3 F1
DC17-12		13,9	17	181	77	167	167	6,2	192	0 M5
DC20-12		16,5	20	181	77	167	167	6,4	192	0 M5
DC24-12		19,8	24	167	175	125	125	9,2	120	0 M5
DC26-12B		21,3	26	165	176	125	125	9,8	120	0 M6
DC35-12A		29	35	196	131	155	167	11,5	108	1 M6
DC35-12B		29	35	196	131	167	180	11,5	108	1 F5
DC38-12		31	38	198	166	170	170	13,3	96	0 M6
DC40-12		32,8	40	198	166	174	174	13,4	96	0 M6
DC50-12A		41	50	241	175	190	190	18,5	64	0 AP
DC50-12B		42,5	50	198	166	170	170	14,9	96	0 M6
DC55-12		45	55	229	138	208	212	17,6	63	1 M6
DC60-12A		49,2	60	265	166	188	188	20,7	45	0 AP
DC60-12B		49,2	60	278	175	190	190	22	48	0 AP
DC65-12A		53,3	65	351	167	176	176	23,6	48	0 M6
DC70-12		57,5	70	260	169	211	215	24,2	48	1 M6
DC79-12		64	79	307	169	211	215	26,5	36	1 M6
DC80-12		65,5	80	353	175	190	190	26,8	36	0 AP
DC85-12		70	85	260	169	211	215	25,1	48	1 M6
DC90-12		74	90	307	169	211	215	29,2	36	1 M6
DC105-12		86	105	307	169	211	215	30,2	36	1 M6
DC115-12A		91	115	328	172	214	220	32,7	36	1 M8
DC120-12A		98	120	407	174	210	240	38,2	27	1 M8
DC120-12B		98	120	331	175	214	218	36,5	36	1 M8
DC120-12C		98	120	341	172	267	283	38,7	24	0 AP
DC140-12		115	140	341	172	267	283	42,7	24	0 AP
DC160-12		130	160	484	171	241	241	46,5	24	1 M8
DC180-12		147,5	180	530	209	214	218	56,4	21	4 M8
DC210-12		172	210	530	209	214	218	60	21	4 DT
DC215-12		172	215	381	178	351	371	59,6	20	0 M8
DC220-12		175	220	522	242	218	222	65,5	18	4 M8
DC240-12		197	240	520	269	204	208	75,2	12	4 M8
DC260-12		213	260	521	269	220	224	77,3	12	4 M8



The EGO SE range has been specially developed for stationary applications. These batteries are mainly used as a back-up solution in case of mains power failure. In case of mains power failure, these batteries take over the power supply smoothly and without interruption. The batteries can be used in numerous applications where backup power is required. We are thinking here of fire and intruder protection systems, but EGO SE is also a very reliable solution in telecommunications and UPS environments!

Advantages EGO SE

- Directly available from stock
- Maintenance-free and safe energy
- AGM technology
- 300 cycles
- Available in 6 and 12V
- Ideal for stationary applications (ups and alarm systems)
- Also suitable for light cyclic use
- Highly reliable and qualitative
- Standard 2-year warranty



Type	In stock	Voltage (V)	Capacity C ₂₀ (Ah)	Length (mm)	Width (mm)	Overall height (mm)	Weight (kg)	Number per box	Pool type & Lay-out
SE4-6	x	6	4	70	47	107	0,68	20	6 F1
SE12-6 (F1)	x	6	12	151	50	100	1,8	10	1 F1
SE1.3-12	x	12	1.3	97	43	58	0,6	10	0 F1
SE2.3-12	x	12	2.3	179	35	66	0,92	10	1 F0
SE3.3-12	x	12	3.3	134	67	67	1,3	10	0 F1
SE4.5-12	x	12	4.5	90	70	107	1,4	10	1 F1
SE5-12	x	12	5	90	70	107	1,6	10	1 F1
SE7-12 (F1)	x	12	7	151	65	98	2,05	8	3 F1
SE7-12 (F2)	x	12	7	151	65	98	2,05	8	3 F2
SE7.2-12 (F1)	x	12	7.2	151	65	100	2,15	10	3 F1
SE7.2-12 (F2)	x	12	7.2	151	65	100	2,15	10	3 F2
SE12-12	x	12	12	151	98	101	3,4	4	4 F2
SE18-12	x	12	18	181	77	167	5,2	4	0 F12
SE26-12	x	12	26	166	175	125	8,1	1	0 F12
SE42-12	x	12	42	198	166	169	13	1	0 F13



HF Batteries (LFP)

The ACES line of HFP batteries are based on LiFePO₄ (LFP) cells. These are designed for daily use in boats, industry, EV and storage applications.

The batteries have the latest LFP high energy density technology and can be offered at very attractive prices.

The cycle life is up to 3000 cycles. A lifetime of 10-15 years is possible. The capacity can be increased by connecting batteries in parallel (maximum of 4).

	AL24V80HFP	AL24V100HFP	AL48V72HFC	AL48V80HFP	AL48V100HFP	AL48V160HFP	AL72V100HFP
Voltage (V)	24	24	48	48	48	48	72
Nominal voltage	25.6	25.6	51.2	51.2	51.2	51.2	73.6
Capacity (AH)	80	100	72	80	100	160	60
Energy (Wh)	2048	2560	3686	4096	5120	8192	7360
Cycle Life (80% DOD) 0.2C	3000	3000	3000	3000	3000	3000	3000
Parallel connection	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4
Parallel connection	no	no	no	no	no	no	no
Discharge current (A)	80	80	72	80	100	130	80
Peak current (A)	240	240	240	240	300	300	200
Overdischarge protect level (V)	20	20	40	40	40	40	60
Short circuit protection delay	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us
Max. charge current	40	50	36	40	50	100	40
Recommended charge current	10...40	10...40	10...36	10...36	10...36	20...60	3...40
Charge Voltage max. (100% SOC)	28.8	28.8	57.6	57.6	57.6	57.6	82.8
Recommended charger model	ABC700-2420LF	ABC700-2420LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC2000-7225LF
Dimensions (mm)	269 x 159 x 279	269 x 159 x 318	393 x 253 x 237	396 x 247 x 248	396 x 297 x 248	573 x 300 x 275	416 x 372 x 262
Weight (kg)	18	23	35	36	44	65	64
Protection IP class	65	65	65	65	65	65	65
Terminals	M8	M8	M8	M8	M8	M8	M8
Cell types (LiFePo ₄)	Prismatic	Prismatic	Cylindric	Prismatic	Prismatic	Prismatic	Prismatic
Discharge Temp	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C
Charge Temp	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C
Storage Temp	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C
BMS Cut-Off temp	67°C	67°C	67°C	67°C	67°C	67°C	67°C



HFA Batteries (LFP)

The new ACES Lithium batteries in ABS case are very compact and low weight. These batteries have an intelligent and integrated Battery Management System. Most of the models have a built-in Bluetooth connection. The status of the battery can be easily viewed by our App on an Android or iOS Smartphone. It is easy with these batteries to replace lead-acid batteries. The advantage of these LiFePO4 batteries will be much more capacity within the

same weight and size and a 3 - 6 times longer life.

More than 4000 charge/discharge cycles are possible. Additionally these batteries allow fast charging, can be discharged 100% and offer much more capacity at higher load currents. These batteries use the LiFePO4 chemistry that has no cobalt inside and is absolutely safe. No worry about the safety anymore.

12V HFA Batteries (LFP)

	AL12V24HFA	AL12V45HFA	AL12V60HFA-BT	AL12V80HFA-BT	AL12V100HFA-BT	AL12V120HFA-BT	AL12V150HFA-BT	AL12V150HFA-BT	AL12V200HFA-BT	AL12V280HFA-BT	AL12V320HFA-BT	AL12V400HFA-BT
Voltage (V)	12											
Nominal voltage	12,8											
Capacity (Ah)	24	45	60	80	100	120	150	150	200	280	320	400
Energy (Wh)	307	576	768	1024	1280	1536	1920	1920	2560	3584	4096	5120
Cycle Life (80% DOD) 0.2C	4000											
Parallel connection	Up to 4											
Series connection	no											
Discharge current (A)	24	45	60	80	100	100	150	150	150	200	150	150
Peak current (A)	100	125	200	300	300	300	360	350	360	400	360	360
Overdischarge protect level (V)	10											
Max. charge current	24	45	60	80	100	60	150	150	150	150	150	150
Recommended charge current	3...12	4...23	6...30	8...40	10...50	6...30	10...30	6...30	15...75	20...100	40...100	40...100
Charge Voltage to 100% (V)	14,4 ... 14,6											
Recommended charger model	ABC150-1210LF	ABC300-1212LF	ABC300-1212LF	ABC300-1212LF	ABC700-1220LF	ABC700-1220LF	ABC720F-1230LF	ABC720F-1230LF	ABC720F-1230LF	ABC720F-1230LF	ABC720F-1230LF	ABC720F-1230LF
Dimensions (mm)	"181 X 76 X 167"	"165 X 126 X 175"	"197 X 166 X 173"	"260 X 168 X 209"	"306 X 168 X 211"	"260 X 168 X 209"	"483 X 170 X 240"	"355 X 175 X 188"	"522 X 239 X 218"	"345 X 190 X 245"	"522 X 267 X 218"	"522 X 267 X 218"
Weight (kg)	2,8	4,0	7,0	9,3	11,5	13,0	19,0	17,0	22,0	24,0	32,0	39,0
Protection IP class	65											
Terminals	M8	M8	M8	M8	M8	M8	M8	Din 17(-) / 19 (+)mm	M8	M8	M8	M8
Cell types (LiFePo4)	Cylindric	Cylindric	Cylindric	Cylindric	Cylindric	Cylindric	Pouch	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic
Discharge Temp	-20...60°C											
Charge Temp	0...45°C											
Storage Temp	-5...30°C											
BMS Cut-Off temp	70°C											



24V & 36V HFA Batteries (LFP):

	AL24V12HFA	AL24V30HFA-BT	AL24V50HFA-BT	AL24V60HFA-BT	AL24V75HFA-BT	AL24V84HFA-BT	AL24V100HFA-BT	AL24V160HFA-BT	AL24V200HFA-BT	AL36V100HFA-BT
Voltage (V)	24									36
Nominal voltage	25,6									38,4
Capacity (AH)	12	30	50	60	75	84	100	160	200	100
Energy (Wh)	307	768	1080	1536	1920	2150	2560	4096	5120	3840
Cycle Life (80% DOD) 0.2C	4000									
Parallel connection	Up to 4									
Series connection	no									
Discharge current (A)	12	30	50	50	60	84	100	150	150	100
Peak current (A)	80	140	220	220	220	220	350	400	400	200
Overdischarge protect level (V)	20									
Max. charge current	12	30	50	50	50	84	100	150	150	150
Recommended charge current	1...6	3...15	5...25	6...30	7...38	8...42	10...50	10...80	20...100	10...50
Charge Voltage to 100% (V)	28,8 ... 29,2									
Recommended charger model	ABC150-240SLF	ABC150-240SLF	ABC300F-2412LF	ABC300F-2412LF	ABC300F-2412LF	ABC700-2420LF	ABC700-2420LF	ABC900F-2430LF	ABC2000-24SOLF	ABC900F-3625LF
Dimensions (mm)	"181 X 76 X 167"	"197 X 166 X 173"	"306 X 168 X 211"	"260 X 168 X 209"	"306 X 168 X 211"	"483 X 170 X 240"	"522 X 239 X 218"	"522 X 267 X 218"	"522 X 267 X 218"	"522 X 267 X 218"
Weight (kg)	2,8	7,0	11,5	12,0	15,0	19,0	22,0	32,0	39,0	26,0
Protection IP class	65									
Terminals	M5	M8	M8	M8	M8	M8	M8	M8	M8	M8
Cell types (LiFePo4)	Cylindric	Cylindric	Cylindric	Cylindric	Cylindric	Cylindric	Prismatic	Prismatic	Prismatic	Prismatic
Discharge Temp	-20...60°C									
Charge Temp	0...45°C									
Storage Temp	-5...30°C									
BMS Cut-Off temp	70°C									



48V, 60V & 72V HFA Batteries (LFP):

	AL48V12HFA-BT	AL48V18HFA-BT	AL48V30HFA-BT	AL48V80HFA-BT	AL48V100HFA-BT	AL48V100HFA-BTC	AL60V30HFA-BT	AL60V75HFA-BT	AL72V30HFA-BT	AL72V60HFA-BT
Voltage (V)	48						60		72	
Nominal voltage	51,2						60,8		73,6	
Capacity (AH)	12	18	30	80	100	100	80	75	30	60
Energy (Wh)	614	922	1536	4096	5120	5120	1824	4560	2208	4416
Cycle Life (80% DOD) 0.2C	4000									
Parallel connection	Up to 4									
Series connection	no									
Discharge current (A)	12	18	30	80	100	100	30	75	30	60
Peak current (A)	50	80	100	220	220	220	100	220	120	220
Overdischarge protect level (V)	40	40	40	40	40	40	48	48	58	58
Max. charge current	12	18	30	80	100	100	30	75	30	60
Recommended charge current	1...6	2...9	2...15	8...40	10...50	10...50	3...15	6...38	3...15	6...30
Charge Voltage to 100% (V)	14,4 ... 14,6	14,4 ... 14,6	14,4 ... 14,6	57,6 ... 58,4	57,6 ... 58,4	57,6 ... 58,4	68,4 ... 69,3	68,4 ... 69,3	82,8 ... 83,9	82,8 ... 83,9
Recommended charger model	ABC300-4805LF	ABC300-4805LF	ABC300-4805LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC700-6010LF	ABC1350-6020LF	ABC1350-7218LF	ABC1350-7218LF
Dimensions (mm)	"197 X 166 X 173"	"260 X 116 X 209"	"330 X 172 X 215"	"522 X 267 X 218"	"522 X 267 X 218"	"522 X 267 X 218"	"306 X 168 X 211"	"522 X 267 X 218"	"483 X 170 X 240"	"522 X 267 X 218"
Weight (kg)	6,0	8,4	13,5	32,0	39,0	39,0	14,0	35,0	20,0	40,0
Protection IP class	65									
Terminals	M8									
Cell types (LiFePo4)	Cylindric	Cylindric	Cylindric	Prismatic	Prismatic	Prismatic	Cylindric	Cylindric	Cylindric	Pouch
Discharge Temp	-20...60°C									
Charge Temp	0...45°C									
Storage Temp	-5...30°C									
BMS Cut-Off temp	70°C									



Ecobat 6V, 8V and 12V EC Series provide powerful and dependable performance for floor cleaning equipment, golf carts, access platform lifts, electric vehicles, traffic management systems, marine & material handling equipment.

EC features

- Enveloped Positive Plates
- Increased Liquid Reserve
- Greater Rigidity
- Greater Durability
- Less Maintenance
- 12 month warranty
- Lifting strap options
- Auto fill system
- Speed caps
- Made in Canada

Part Number		Capacity in Ah			Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
		@C5	@C10	@C20			
EC SERIES							
6V	6 EC GC2	166Ah	185Ah	210Ah	DT	259 x 181 x 279	27.0
	6 EC GC2-HC	182Ah	202Ah	230Ah	DT	259 x 181 x 279	29.0
	6 EC GC-DIN	194Ah	216Ah	245Ah	AP	244 x 191 x 269	32.0
	6 EC 145	194Ah	216Ah	245Ah	DT	259 x 181 x 290	32.0
	6 EC 250-SC	217Ah	242Ah	275Ah	DT	298 x 181 x 286	40.0
	6 EC 305-HC	237Ah	264Ah	300Ah	DT	311 x 181 x 362	41.0
	6 EC 305-SC	265Ah	295Ah	335Ah	DT	311 x 181 x 362	44.0
	6 EC L16	292Ah	329Ah	365Ah	DT	318 x 181 x 425	51.0
	6 EC L16-HC	332Ah	374Ah	415Ah	DT	318 x 181 x 425	55.5
8V	8 EC GC	119Ah	132Ah	150Ah	UTL	259 x 181 x 279	27.0
	8 EC GC-HC	140Ah	156Ah	177Ah	UTL	259 x 181 x 279	29.5
12V	12 EC 24	66Ah	69Ah	80Ah	DT	279 x 171 x 238	21.5
	12 EC 27	82Ah	85Ah	100Ah	DT	321 x 171 x 238	24.5
	12 EC 31	94Ah	107Ah	125Ah	DT	330 x 171 x 241	29.5
	12 EC GC-HC	119Ah	132Ah	150Ah	UTL	333 x 182 x 274	37.5
	12 EC 185-HC	162Ah	180Ah	205Ah	DT	391 x 178 x 365	52.0

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.

Rolls FS Series

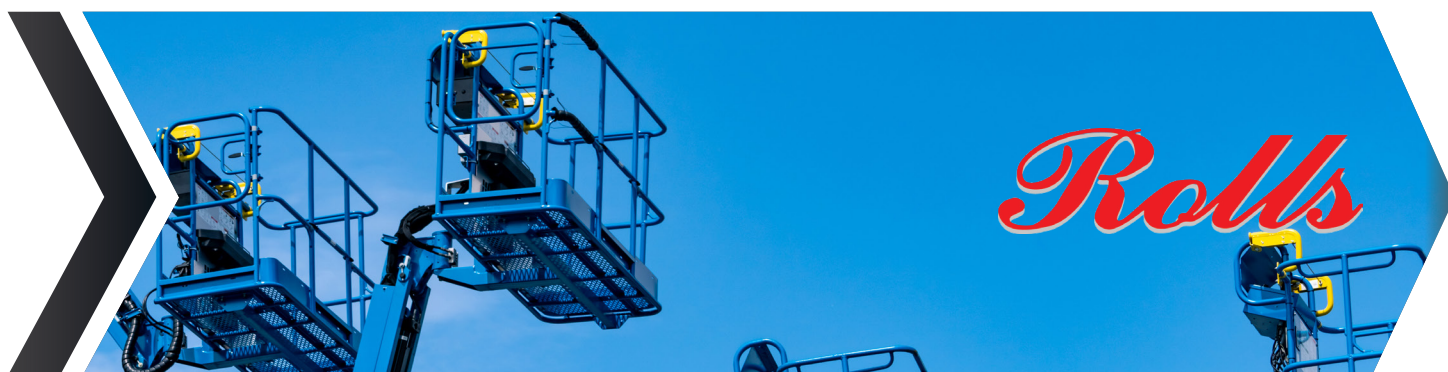
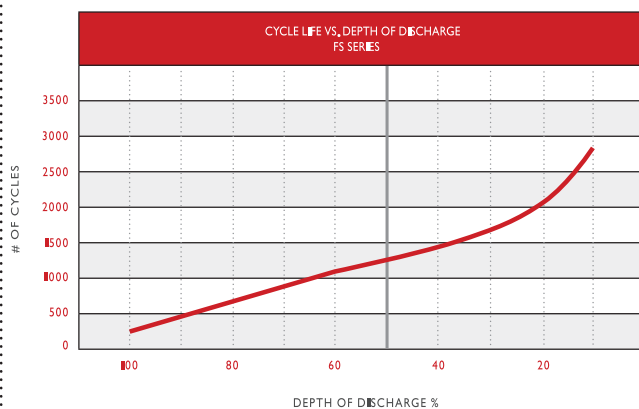
With the ever increasing demand placed on batteries in today's tough markets, reliability is key. Rolls 6V, 8V and 12V FS Series batteries incorporate a new plate design with a larger surface area and higher density paste, providing increased performance for high current applications. Powerful and dependable, these popular models provide ample power for floor cleaning equipment, golf cart & electric vehicles, traffic management systems, material handling equipment, and the marine market.

Reliability is key and by offering a larger plate surface area with maximised paste density this range is ideal for high duty cycle demands.

Features:

- Envelope separators
- Increased electrolyte reserve
- Greater rigidity
- Greater durability
- Less maintenance
- Advanced NAM additive for quicker & more efficient charging, increased capacity & improved cycle life

ENHANCED PERFORMANCE
& CYCLE LIFE



	Part Number	Capacity in Ah at		Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
		C20	C5			
6V	6-FS-GC	215Ah	170Ah	DT	259 x 181 x 279	27.0
	6-FS-GC-HC	235Ah	186Ah	DT	259 x 181 x 279	29.0
	6-FS-145	250Ah	198Ah	DT	259 x 181 x 290	32.0
	6-FS-GC-DIN	250Ah	198Ah	AP	244 x 191 x 275	32.0
	6-FS-250-SC	281Ah	222Ah	DT	298 x 181 x 286	40.0
	6-FS-305-HC	320Ah	253Ah	LT	311 x 181 x 362	44.0
	6-FS-305-SC	360Ah	284Ah	LT	311 x 181 x 362	46.5
	6-FS-L16	375Ah	300Ah	DT	318 x 181 x 425	51.0
	6-FS-L16-HC	425Ah	340Ah	DT	318 x 181 x 425	55.5
8V	8-FS-GC	155Ah	122Ah	UTL	259 x 181 x 279	27.0
	8-FS-GC-HC	182Ah	144Ah	UTL	259 x 181 x 279	29.5
12V	12-FS-24	85Ah	69Ah	DT	279 x 171 x 238	21.5
	12-FS-27	105Ah	85Ah	DT	321 x 171 x 238	24.5
	12-FS-31	130Ah	98Ah	DT	330 x 171 x 241	29.5
	12-FS-GC-HC	155Ah	122Ah	UTL	333 x 182 x 289	37.5
	12-FS-185-HC	210Ah	166Ah	DT	391 x 178 x 365	52.0

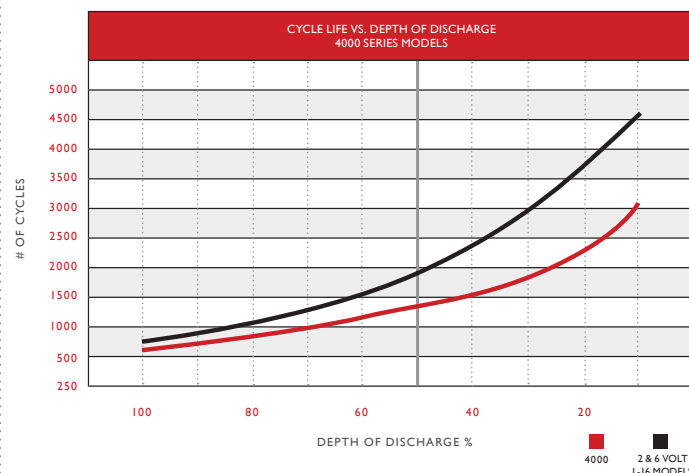
Rolls 4000 Series

Rolls Series 4000 Deep Cycle

The Rolls series 4000 batteries are available in 2V, 6V or 12V configuration and offer a wide range of capacities. Used in a variety of applications including renewable energy systems, they have a long life expectancy and one of the longest warranty periods available.

Features:

- Combination of thick plate design with the highest density active material
- Envelope separators
- Increased electrolyte reserve
- Greater rigidity
- Greater durability
- Sediment chamber removed allowing higher plates to be used in the same sized cell, thus yielding greater capacity
- Unsurpassed cycling service
- Less maintenance



Part Number	Capacity in Ah at			Dimensions (mm) L x W x H	Weight Wet (Kg)
	C100	C20	C10		
Series 4000 - 2 Volt (1 Cell) - Polypropylene Container					
S2 L16	1344Ah	1169Ah	1052Ah	318 x 181 x 432	54.5
S2 L16-HC	1495Ah	1335Ah	1202Ah	318 x 181 x 432	57.5
S2 L16-SC	1683Ah	1503Ah	1353Ah	318 x 181 x 432	59.0
Series 4000 - 6 Volt (3 Cell) - Polypropylene Container					
S6 GC2-HC	294Ah	235Ah	202Ah	259 x 181 x 279	31.5
S6 145	320Ah	250Ah	220Ah	259 x 181 x 290	32.0
S6 L16	449Ah	390Ah	351Ah	318 x 181 x 425	51.0
S6 L16-HC	498Ah	445Ah	401Ah	318 x 181 x 425	55.5
Series 4000 - 12 Volt (6 Cell) - Polypropylene Container					
S12 24	106Ah	85Ah	72Ah	279 x 171 x 238	21.5
S12 27	140Ah	105Ah	89Ah	321 x 171 x 238	24.5
S12 31	173Ah	130Ah	111Ah	330 x 171 x 241	29.5
S12 GC	206Ah	155Ah	136Ah	333 x 182 x 274	37.5
S12 185	279Ah	210Ah	185Ah	391 x 178 x 365	61.0

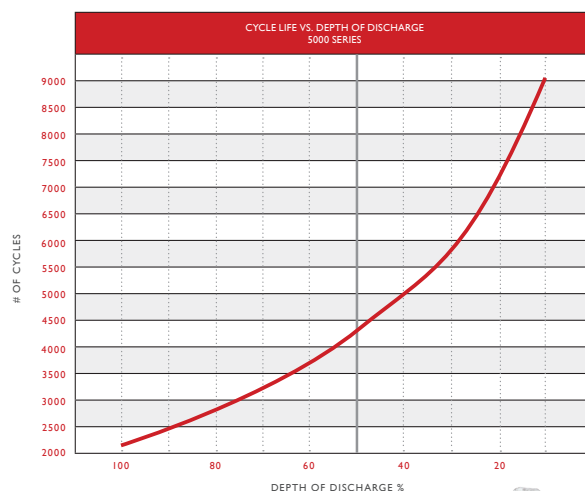
Rolls Series 5000 Deep cycle

Rolls unique battery design features dual container construction. Each cell is self-contained in a high temperature- retardant, durable polypropylene case. The outer container is made of high-density unbreakable polyethylene, providing double protection from breakage and acid leakage. Cell replacement is clear and concise with bolt-on connectors, allowing the battery to be assembled or repaired on location.

All Rolls 5000 Series Renewable Energy models now feature enhanced negative plate construction with Rolls Battery proprietary Advanced NAM carbon blend.

Features:

- Advanced NAM additive for quicker & more efficient charging, increased capacity & improved cycle life
- Modular dual container construction
- Computer controlled formation
- Robotically welded
- Included Rolls R-Cap
- 15 year average life*



Part Number	Capacity in Ah at			Dimensions (mm) L x W x H	Weight Wet (Kg)
	C100	C20	C10		
Series 5000 - 2 Volt (1 Cell) - Dual Container					
2 KS 33P	2369Ah	1837Ah	1635Ah	392 x 211 x 630	94.0
2 OS 33P	2522Ah	1955Ah	1740Ah	392 x 211 x 630	100.5
2 YS 27P	2825Ah	2190Ah	1949Ah	356 x 229 x 803	111.5
2 YS 31P	3260Ah	2527Ah	2249Ah	394 x 229 x 803	129.0
2 YS 62P	6520Ah	5054Ah	4498Ah	695 x 229 x 803	258.5
Series 5000 - 4 Volt (2 Cell) - Dual Container					
4 CS 17P	733Ah	568Ah	505Ah	365 x 210 x 464	58.0
4 KS 21P	1481Ah	1148Ah	1022Ah	400 x 238 x 629	121.0
4 KS 25P	1811Ah	1404Ah	1250Ah	400 x 270 x 629	142.5
4 KS 27P	1959Ah	1518Ah	1351Ah	400 x 270 x 629	153.5
Series 5000 - 6 Volt (3 Cell) - Dual Container					
6 CS 17P	733Ah	568Ah	505Ah	559 x 210 x 464	100.0
6 CS 21P	921Ah	710Ah	632Ah	559 x 248 x 464	122.5
6 CS 25P	1100Ah	853Ah	759Ah	559 x 286 x 464	144.0
6 CS 27P	1198Ah	929Ah	827Ah	559 x 286 x 464	155.0
Series 5000 - 12 Volt (6 Cell) - Dual Container					
12 CS 11P	479Ah	371Ah	330Ah	599 x 286 x 464	123.0

Rolls OPzV Long Life GEL

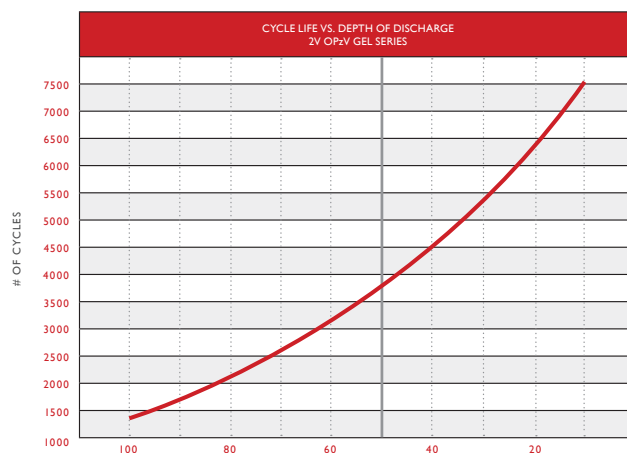
Rolls GEL OPzV range offers an immobilized GEL and Tubular plate technology, providing high reliability and performance. Each is designed and manufactured according to DIN standards, constructed with die-casting positive grid and a patent formula of active material. Rolls GEL OPzV 2 volt models offers high cyclic use even under extreme operating conditions and more than 20 years floating design life at 25°C / 77°F.

Features:

- Sealed maintenance-free construction
- Tubular plate technology for high cyclic use and float applications
- Durable ABS case
- Low self-discharge (less than 2% per month)
- Vertical or horizontal* mounting /installation

Main Applications:

- Solar Energy & Wind Energy
- IT/ Telecommunications
- Electric Vehicle, Floor Machines, Marine, Touring Coach
- Power Storage Plant
- Uninterruptible Power Supplier/ UPS
- Security / Emergency lighting



	Part Number	Capacity in Ah C100	Capacity in Ah C20	Capacity in Ah C10	Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
2V	S2-224GEL	301	252	224	2 x Threaded Female M10	103 x 206 x 382	18.5
	S2-280GEL	376	315	280	2 x Threaded Female M10	124 x 206 x 382	22.0
	S2-336GEL	452	378	336	2 x Threaded Female M10	145 x 206 x 382	26.5
	S2-405GEL	556	459	405	2 x Threaded Female M10	124 x 206 x 498	30.0
	S2-486GEL	668	551	486	2 x Threaded Female M10	145 x 206 x 498	35.0
	S2-567GEL	782	643	567	2 x Threaded Female M10	166 x 206 x 498	41.0
	S2-690GEL	968	785	690	2 x Threaded Female M10	145 x 206 x 673	48.0
	S2-920GEL	1287	1046	920	4 x Threaded Female M10	191 x 210 x 673	65.5
	S2-1150GEL	1610	1308	1150	4 x Threaded Female M10	233 x 210 x 673	80.0
	S2-1380GEL	1938	1571	1380	4 x Threaded Female M10	275 x 210 x 673	95.0
	S2-1620GEL	2197	1828	1620	4 x Threaded Female M10	275 x 210 x 824	110.0
	S2-2160GEL	2927	2437	2160	6 x Threaded Female M10	399 x 214 x 799	156.0
	S2-2700GEL	3655	3044	2700	8 x Threaded Female M10	487 x 212 x 799	195.0
	S2-3240GEL	4402	3660	3240	8 x Threaded Female M10	576 x 212 x 799	231.0
	S2-3458GEL	4730	3936	3458	8 x Threaded Female M10	576 x 212 x 799	241.5

*Rolls OPzV GEL models must be installed vertically unless otherwise specified. Models compatible with horizontal installation are available upon request.

Rolls AGM-S Batteries

Rolls Battery has designed a premium Deep Cycle VRLA battery with high reserve capacity, long cycle life and low internal resistance, while achieving superior cranking performance. The Rolls AGM batteries are the smart choice for demanding recreational and industrial deep discharge applications.

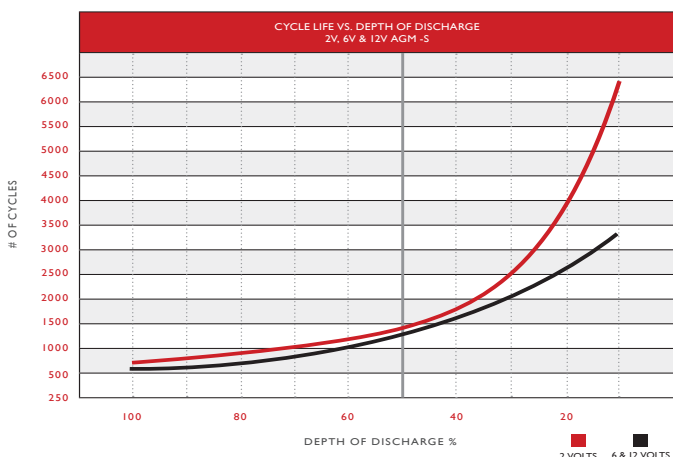
Rolls high quality AGM-S VRLA batteries offer true deep cycle performance, increased capacity and extended cycle life in a rugged, sealed, shock and vibration-resistant ABS case design for added durability, ideal for a variety of remote and confined off-grid, grid-tied and backup applications.

Features:

- Sealed construction
- New high-density active paste
- Heavy duty thick plates
- ABS case and cover
- Superior corrosion resistance
- Maintenance free, spill-proof/leak-proof
- Low self discharge rate, only 3%/month
- Faster recharging time



	Part Number	Capacity in Ah at			Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
		C100	C20	C10			
2V	S2-1275AGM	1275	1150	1040	F10	295 x 178 x 424	57.5
6V	S6-275AGM	275	250	229	M8-TP08	262 x 181 x 273	34.5
	S6-370AGM	370	335	300	DT	295 x 178 x 366	48.0
	S6-460AGM	460	415	374	F10	295 x 178 x 424	57.0
8V	S8-200AGM	200	170	162	DT	260 x 182 x 314	34.5
	S8-230AGM	230	200	190	DT	260 x 182 x 314	38.0
12V	S12-95AGM	95	85	77	DT	260 x 169 x 237	23.0
	S12-116AGM	116	105	95	DT	307 x 169 x 237	28.5
	S12-128AGM	128	115	104	DT	328 x 172 x 236	32.0
	S12-160AGM	160	145	126	DT	341 x 173 x 309	44.0
	S12-230AGM	230	210	189	LT	530 x 209 x 239	56.0
	S12-240AGM	240	215	193	DT	381 x 178 x 371	63.5
	S12-290AGM	290	260	234	LT	521 x 269 x 245	74.0



Rolls AGM batteries are sealed, maintenance free, non-hazardous and non-spillable. You will never need to add water to a Rolls AGM battery or worry about gassing or spilling of acid.

Rolls AGM batteries can be used in many applications including; boats, RVs, solar and wind power, electric vehicles, golf carts, floor cleaning machines, aerial work platforms and many more.

Rolls AGM batteries provide the performance and life of a true deep cycle battery with all the convenience and benefits of being maintenance free & non-hazardous.

Rolls AGM-R Batteries

This range of dual purpose sealed maintenance-free 12 volt AGM batteries offering outstanding value and performance. The AGM-R line offers a lower self-discharge and an increased acceptance to charge current than conventional flooded wet batteries, allowing faster recharge. Incorporating all of the leading design features associated with Absorbed Glass Mat technology, the AGM-R line provides the perfect solution when looking to replace wet batteries or upgrade existing sealed batteries.

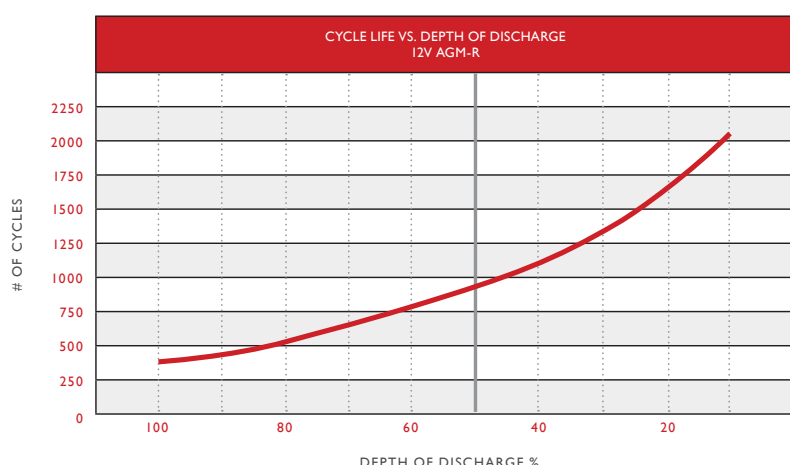
These batteries can be used in a wide variety of applications including; Mobility, Marine and RV, Solar and Wind Power Systems, Test Equipment, Telecommunications and Standby Power.

Features:

- Maintenance-free sealed construction
- Low internal resistance allowing faster recharge
- Shock and vibration-resistance ABS case
- 800 cycles at 50% DOD*
- Standard dimensions for easy retro-fit



Part Number	Capacity in Ah at			Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
	C100	C20	C10			
12V R12-80AGM	90	80	68	DT	260 x 169 x 237	23.0
R12-100AGM	110	100	86	DT	306 x 169 x 237	27.0
R12-110AGM	120	110	90	DT	328 x 172 x 220	30.0
R12-200AGM	220	200	162	F8	530 x 209 x 224	55.5
R12-260AGM	290	260	200	F8	522 x 268 x 224	73.0



Rolls AGM Terminal Configurations

PT (Post Terminal)	DT (Dual Terminal)	LT (Lug Terminal)	M6/M8 (Stud)	M8	TP08 (Brass Post)	F8/F10

* Additional options include - Battery Monitor, Phoenix Charger Control, Battery Alarm



Quality, reliability and robustness. These are just a few key words that characterise EDrive traction batteries. Quality that is achieved by high-tech production processes and years of experience. These powerful batteries have been developed with heavy loads in mind. As a result, they can be used in all applications and for all types of machines. All EDrive traction batteries come with a standard 2-year full warranty plus a 2-year digressive warranty.

Advantages EDrive Traction

- Fast delivery times, very large stock
- Long life span
- Cells for intensive use
- Qualitative, reliable, robust
- Complete DIN range according to EU standards
- Robust and solid construction
- Can be used in combination with any charger
- European production
- Correct choice of single/double pole
- Warranty: 2 years plus 2 years digressive





The EDrive Premium Traction is a traction battery developed for heavier duty applications. The cells have a higher lead density, which means they can absorb more energy, but can also release it. This makes the battery suitable for very heavy duty applications and it also has a longer life span than standard cells. Moreover, there are many more possibilities. Do you want to use the battery in multiple shifts or provide it with an acid circulation system? This reliable powerhouse will not let you down.

Advantages EDrive Premium Traction

- Fast delivery times, very large stock
- Longer life span
- Cells for very intensive use
- Qualitative, reliable, robust
- Full range DIN & BS according to EU standards
- Robust and solid construction
- Can be used in combination with any charger
- Possibility of acid circulation (tube in tube system)
- European production
- Correct choice of single/double pole
- Warranty: 2 years plus 2 years digressive, possibility of possibility of extension with full service contract





EDRIVE ENDURANCE



Battery delivers more working hours, so it can operate in **longer shifts** +12%



Battery generates **more cycles** (1820 instead of 1500) +21%



Reduced water consumption -66%



Lower operating temperature -26%



Reduced water consumption -23%

EDrive Endurance. The strongest athlete in its class.

Wherever extraordinarily high-performance traction cells are required, that is when the EDrive Endurance realises its full potential. This battery runs with superior adaptability in longer shifts and, at the same time, generates more cycles than other traction batteries. Its unique product design features a number of advantages: an improved separator, superior plates with adapted lead oxide and a purer lead alloy (99.9% instead of standard). These improvements mean it can achieve a lower internal resistance, and the average voltage of the battery is higher than in standard traction cells. Ultimately, this results in more available energy and in greatly reduced battery wear and tear.





Do you need a traction battery with even more power? A battery that runs in longer shifts and at the same time has a longer life span than standard traction cells? Then EDrive Power Square may be the right answer. This battery has been developed with just one aim: optimal use in the most extreme conditions. This is achieved thanks to a unique cell design. Square tube plates provide a larger plate area and more power.

All the elements in the battery are of superior quality. Heavier plates, better separators and purer lead. This ensures more energy and a longer life span. In concrete terms, this can make a considerable difference to the Total Cost of Ownership. When working longer shifts, EDrive Power Square can save the cost of other replacement batteries. This means that this high performance battery meets the latest generation of lead-acid batteries.

Advantages EDrive Power Square

- Developed for extreme heavy duty applications
- Increased capacity through modified cell design
- Generates more power through a larger plate area thanks to square tube plates
- Runs easily in longer shifts so batteries can be saved
- Plates can handle higher voltage levels during the discharge cycle
- Heavier and more robust plates ensure a longer life span
- Automatic water filling system fitted as standard, acid circulation and electrolyte level sensor, optional BMS
- European manufacturing
- Ideal in combination with the EDrive Flexis Pro
- Warranty: 2 years + 2 years digressive, possibility of extension with full service contract





EDdrive Traction Gel batteries are 100% maintenance-free.

Not only does this mean a significant reduction in labour costs but it is also an extremely safe solution. EDdrive Traction Gel consists of completely sealed cells, which means there is no risk whatsoever of acid leakage or gas formation. For companies with extremely stringent safety regulations, such as those in the chemical, pharmaceutical and food industries, these batteries are an excellent solution.

Advantages of EDdrive Traction Gel

- Absolutely maintenance-free
- No risk of acid leakage
- No need to top up with water
- Extremely safe solution making it ideal for the chemical, pharmaceutical and food industries
- Decentralized charging for extremely low gas emissions
- Ventilated charging area is not required





EDrive Aqualess Airmatic. The ultimate package.

EDrive Aqualess Airmatic combines the advantages of a maintenance-free battery in a classic traction battery. An intelligent adjustment in the cell structure ensures a significant reduction of water consumption. With a normal 80% discharge, for 5 days a week, water only needs to be topped up every 12 weeks. This ensures a sharp drop in maintenance costs and gives you great ease of use. With the additional Airmatic option, you can also enjoy lower energy bills. This system releases almost no gas and allows for 30% faster loading.

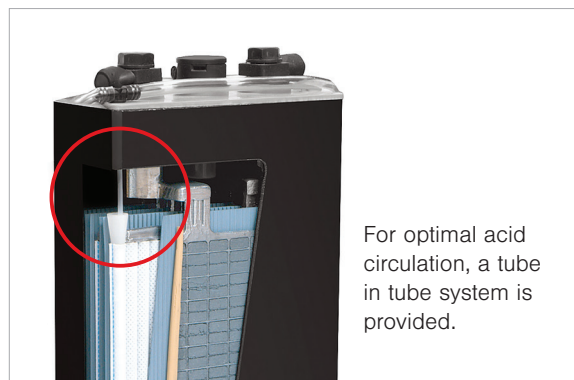
Advantages EDrive Aqualess Standard

- Water refill interval is reduced significantly to 8 weeks (with normal use and 80% discharge, 1 cycle per day, 5 days per week) use with an 80% discharge, 1 cycle per day, 5 days per week)
- Less maintenance costs

Advantages EDrive Aqualess Airmatic

- Water refill interval drops significantly to 12 weeks
- Reduced loading factor
- 50% to 80% less gas release
- 20% to 30% faster charging times
- 10% to 20% less energy consumption
- Decrease in operating temperature

Tube in tube system





The EDrive ATEX gives you every guarantee when it comes to safety. This traction battery is available for the various danger zones. The container is adapted where necessary to meet the guidelines. All parts used for these batteries are ATEX certified. EDrive ATEX batteries are not only developed with safety in mind. The cells used for this are EDrive Premium Traction cells. This way, you can also enjoy a maximum use and lifetime of your battery. Ecobat Battery has extensive experience in supplying ATEX batteries.

Advantages EDrive ATEX

- Explosion-proof
- Available for ATEX zones
- Longer service life
- Cells for very intensive use
- Qualitative, reliable, robust
- Full range DIN & BS, Gel according to EU standards
- Complies with the European directives 2014/34/EU and EN/IEC 60079-0, 60079-7, 60079-31 standards
- Robust and solid construction
- Possibility of acid circulation
- European production
- Correct choice of single/double pole
- Warranty: 2 years plus 2 years digressive



Technical specifications

EDrive Traction: DIN

Length of EDrive Traction cells = 198mm



Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 100	DIN 290/47	100	47	282	305	6,8 kg
3 PzS 150	DIN 290/65	150	65	282	305	9,6 kg
4 PzS 200	DIN 290/83	200	83	282	305	12,4 kg
5 PzS 250	DIN 290/101	250	101	282	305	15,3 kg
6 PzS 300	DIN 290/119	300	119	282	305	18,2 kg
7 PzS 350	DIN 290/137	350	137	282	305	21,1 kg
8 PzS 400	DIN 290/155	400	155	282	305	24,0 kg
9 PzS 450	DIN 290/173	450	173	282	305	26,9 kg
10 PzS 500	DIN 290/191	500	191	282	305	29,8 kg
12 PzS 600	DIN 290/227	600	227	282	305	35,9 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 120	DIN 365/47	120	47	340	363	8,5 kg
3 PzS 180	DIN 365/65	180	65	340	363	11,9 kg
4 PzS 240	DIN 365/83	240	83	340	363	15,4 kg
5 PzS 300	DIN 365/101	300	101	340	363	18,9 kg
6 PzS 360	DIN 365/119	360	119	340	363	22,4 kg
7 PzS 420	DIN 365/137	420	137	340	363	25,9 kg
8 PzS 480	DIN 365/155	480	155	340	363	29,4 kg
9 PzS 540	DIN 365/173	540	173	340	363	32,9 kg
10 PzS 600	DIN 365/191	600	191	340	363	36,4 kg
12 PzS 720	DIN 365/227	720	227	340	363	43,7 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 160	DIN 428/47	160	47	402	425	10,2 kg
3 PzS 240	DIN 428/65	240	65	402	425	14,5 kg
4 PzS 320	DIN 428/83	320	83	402	425	18,7 kg
5 PzS 400	DIN 428/101	400	101	402	425	22,9 kg
6 PzS 480	DIN 428/119	480	119	402	425	27,1 kg
7 PzS 560	DIN 428/137	560	137	402	425	31,3 kg
8 PzS 640	DIN 428/155	640	155	402	425	35,5 kg
9 PzS 720	DIN 428/173	720	173	402	425	39,7 kg
10 PzS 800	DIN 428/191	800	191	402	425	43,9 kg
12 PzS 960	DIN 428/227	960	227	402	425	52,6 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 180	DIN 495/47	180	47	472	495	11,6 kg
3 PzS 270	DIN 495/65	270	65	472	495	16,6 kg
4 PzS 360	DIN 495/83	360	83	472	495	21,4 kg
5 PzS 450	DIN 495/101	450	101	472	495	26,2 kg
6 PzS 540	DIN 495/119	540	119	472	495	31,0 kg
7 PzS 630	DIN 495/137	630	137	472	495	35,8 kg
8 PzS 720	DIN 495/155	720	155	472	495	40,6 kg
9 PzS 810	DIN 495/173	810	173	472	495	45,4 kg
10 PzS 900	DIN 495/191	900	191	472	495	50,2 kg
12 PzS 1080	DIN 495/227	1080	227	472	495	60,1 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 210	DIN 543/47	210	47	515	538	13,3 kg
3 PzS 315	DIN 543/65	315	65	515	538	18,3 kg
4 PzS 420	DIN 543/83	420	83	515	538	23,7 kg
5 PzS 525	DIN 543/101	525	101	515	538	29,1 kg
6 PzS 630	DIN 543/119	630	119	515	538	34,5 kg
7 PzS 735	DIN 543/137	735	137	515	538	39,9 kg
8 PzS 840	DIN 543/155	840	155	515	538	45,3 kg
9 PzS 945	DIN 543/173	945	173	515	538	50,7 kg
10 PzS 1050	DIN 543/191	1050	191	515	538	56,4 kg
12 PzS 1260	DIN 543/227	1260	227	515	538	67,2 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 230	DIN 574/47	230	47	545	568	14,0 kg
3 PzS 345	DIN 574/65	345	65	545	568	19,8 kg
4 PzS 460	DIN 574/83	460	83	545	568	25,6 kg
5 PzS 575	DIN 574/101	575	101	545	568	31,4 kg
6 PzS 690	DIN 574/119	690	119	545	568	37,2 kg
7 PzS 805	DIN 574/137	805	137	545	568	43,0 kg
8 PzS 920	DIN 574/155	920	155	545	568	48,8 kg
9 PzS 1035	DIN 574/173	1035	173	545	568	54,9 kg
10 PzS 1150	DIN 574/191	1150	191	545	568	60,7 kg
12 PzS 1380	DIN 574/227	1380	227	545	568	72,3 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 250	DIN 600/47	250	47	570	593	14,7 kg
3 PzS 375	DIN 600/65	375	65	570	593	20,7 kg
4 PzS 500	DIN 600/83	500	83	570	593	26,9 kg
5 PzS 625	DIN 600/101	625	101	570	593	33,1 kg
6 PzS 750	DIN 600/119	750	119	570	593	39,3 kg
7 PzS 875	DIN 600/137	875	137	570	593	45,5 kg
8 PzS 1000	DIN 600/155	1000	155	570	593	51,7 kg
9 PzS 1125	DIN 600/173	1125	173	570	593	58,2 kg
10 PzS 1250	DIN 600/191	1250	191	570	593	64,4 kg
12 PzS 1500	DIN 600/227	1500	227	570	593	76,8 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 280	DIN 715/47	280	47	686	709	20,6 kg
3 PzS 420	DIN 715/65	420	65	686	709	25,3 kg
4 PzS 560	DIN 715/83	560	83	686	709	32,2 kg
5 PzS 700	DIN 715/101	700	101	686	709	39,5 kg
6 PzS 840	DIN 715/119	840	119	686	709	46,7 kg
7 PzS 980	DIN 715/137	980	137	686	709	54,0 kg
8 PzS 1120	DIN 715/155	1120	155	686	709	61,2 kg
9 PzS 1260	DIN 715/173	1260	173	686	709	68,8 kg
10 PzS 1400	DIN 715/191	1400	191	686	709	76,0 kg
12 PzS 1680	DIN 715/227	1680	227	686	709	90,5 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 310	DIN 745/47	310	47	720	743	21,5 kg
3 PzS 465	DIN 745/65	465	65	720	743	26,1 kg
4 PzS 620	DIN 745/83	620	83	720	743	33,5 kg
5 PzS 775	DIN 745/101	775	101	720	743	41,1 kg
6 PzS 930	DIN 745/119	930	119	720	743	48,9 kg
7 PzS 1085	DIN 745/137	1085	137	720	743	56,7 kg
8 PzS 1240	DIN 745/155	1240	155	720	743	64,5 kg
9 PzS 1395	DIN 745/173	1395	173	720	743	72,8 kg
10 PzS 1550	DIN 745/191	1550	191	720	743	80,6 kg
12 PzS 1860	DIN 745/227	1860	227	720	743	96,2 kg

Weight: always with electrolyte

Weight and capacity: +/- 5%

Length: 198 mm

Height 1: cover height

Height 2: total height

Technical modifications can be done without prior notification.

EDrive Traction: BS

Length of EDrive Traction cells = 158mm



Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 64	BS 294/46	64	46	260	284	5,1 kg
3 PzB 96	BS 294/62	96	62	260	284	7,1 kg
4 PzB 128	BS 294/78	128	78	260	284	9,2 kg
5 PzB 160	BS 294/94	160	94	260	284	11,3 kg
6 PzB 192	BS 294/110	192	110	260	284	13,2 kg
7 PzB 224	BS 294/126	224	126	260	284	15,0 kg
8 PzB 256	BS 294/142	256	142	260	284	16,8 kg
9 PzB 288	BS 294/158	288	158	260	284	19,1 kg
10 PzB 320	BS 294/174	320	174	260	284	20,9 kg
11 PzB 352	BS 294/190	352	189	260	284	22,7 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 84	BS 357/46	84	46	326	350	6,9 kg
3 PzB 126	BS 357/62	126	62	326	350	9,4 kg
4 PzB 168	BS 357/78	168	78	326	350	11,9 kg
5 PzB 210	BS 357/94	210	94	326	350	14,5 kg
6 PzB 252	BS 357/110	252	110	326	350	17,3 kg
7 PzB 294	BS 357/126	294	126	326	350	20,0 kg
8 PzB 336	BS 357/142	336	142	326	350	22,3 kg
9 PzB 378	BS 357/158	378	158	326	350	25,2 kg
10 PzB 420	BS 357/174	420	174	326	350	27,6 kg
11 PzB 462	BS 357/190	462	189	326	350	30,0 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 110	BS 435/46	110	46	399	423	7,6 kg
3 PzB 165	BS 435/62	165	62	399	423	10,5 kg
4 PzB 220	BS 435/78	220	78	399	423	13,5 kg
5 PzB 275	BS 435/94	275	94	399	423	16,5 kg
6 PzB 330	BS 435/110	330	110	399	423	19,6 kg
7 PzB 385	BS 435/126	385	126	399	423	22,6 kg
8 PzB 440	BS 435/142	440	142	399	423	25,6 kg
9 PzB 495	BS 435/158	495	158	399	423	29,1 kg
10 PzB 550	BS 435/174	550	174	399	423	32,1 kg
11 PzB 605	BS 435/190	605	189	399	423	35,2 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 130	BS 487/46	130	46	453	477	8,2 kg
3 PzB 195	BS 487/62	195	62	453	477	12,0 kg
4 PzB 260	BS 487/78	260	78	453	477	15,5 kg
5 PzB 325	BS 487/94	325	94	453	477	19,0 kg
6 PzB 390	BS 487/110	390	110	453	477	22,6 kg
7 PzB 455	BS 487/126	455	126	453	477	26,1 kg
8 PzB 520	BS 487/142	520	142	453	477	29,6 kg
9 PzB 585	BS 487/158	585	158	453	477	33,6 kg
10 PzB 650	BS 487/174	650	174	453	477	37,2 kg
11 PzB 715	BS 487/190	715	189	453	477	40,7 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 150	BS 548/46	150	46	513	537	10,0 kg
3 PzB 225	BS 548/62	225	62	513	537	13,9 kg
4 PzB 300	BS 548/78	300	78	513	537	17,8 kg
5 PzB 375	BS 548/94	375	94	513	537	21,6 kg
6 PzB 450	BS 548/110	450	110	513	537	25,6 kg
7 PzB 525	BS 548/126	525	126	513	537	29,6 kg
8 PzB 600	BS 548/142	600	142	513	537	33,5 kg
9 PzB 675	BS 548/158	675	158	513	537	38,2 kg
10 PzB 750	BS 548/174	750	174	513	537	42,3 kg
11 PzB 825	BS 548/190	825	189	513	537	46,4 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 172	BS 601/46	172	46	567	591	10,7 kg
3 PzB 258	BS 601/62	258	62	567	591	15,0 kg
4 PzB 344	BS 601/78	344	78	567	591	19,3 kg
5 PzB 430	BS 601/94	430	94	567	591	23,7 kg
6 PzB 516	BS 601/110	516	110	567	591	28,1 kg
7 PzB 602	BS 601/126	602	126	567	591	32,6 kg
8 PzB 688	BS 601/142	688	142	567	591	37,1 kg
9 PzB 774	BS 601/158	774	158	567	591	42,3 kg
10 PzB 860	BS 601/174	860	174	567	591	46,9 kg
11 PzB 946	BS 601/190	946	189	567	591	51,4 kg

Technical specifications

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 200	BS 634/46	200	46	604	628	11,8 kg
3 PzB 300	BS 634/62	300	62	604	628	16,6 kg
4 PzB 400	BS 634/78	400	78	604	628	21,5 kg
5 PzB 500	BS 634/94	500	94	604	628	26,4 kg
6 PzB 600	BS 634/110	600	110	604	628	31,5 kg
7 PzB 700	BS 634/126	700	126	604	628	36,4 kg
8 PzB 800	BS 634/142	800	142	604	628	41,4 kg
9 PzB 900	BS 634/158	900	158	604	628	47,1 kg
10 PzB 1000	BS 634/174	1000	174	604	628	52,0 kg
11 PzB 1100	BS 634/190	1100	189	604	628	56,9 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 216	BS 720/46	216	46	688	712	13,5 kg
3 PzB 324	BS 720/62	324	62	688	712	18,9 kg
4 PzB 432	BS 720/78	432	78	688	712	24,3 kg
5 PzB 540	BS 720/94	540	94	688	712	29,7 kg
6 PzB 648	BS 720/110	648	110	688	712	35,1 kg
7 PzB 756	BS 720/126	756	126	688	712	40,5 kg
8 PzB 864	BS 720/142	864	142	688	712	45,9 kg
9 PzB 972	BS 720/158	972	158	688	712	52,0 kg
10 PzB 1080	BS 720/174	1080	174	688	712	57,4 kg
11 PzB 1188	BS 720/190	1188	189	688	712	62,8 kg

EDrive Endurance: DIN

Length of EDrive Endurance cells = 198mm



Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 100	DIN 300/45 E	100	45	267	296	7,1
3 PzS 150	DIN 300/64 E	150	64	267	296	10,0
4 PzS 200	DIN 300/82 E	200	82	267	296	12,9
5 PzS 250	DIN 300/101 E	250	101	267	296	15,9
6 PzS 300	DIN 300/118 E	300	118	267	296	18,9
7 PzS 350	DIN 300/137 E	350	137	267	296	21,8
8 PzS 400	DIN 300/155 E	400	155	267	296	24,6
9 PzS 450	DIN 300/172 E	450	172	267	296	27,8
10 PzS 500	DIN 300/190 E	500	190	267	296	30,7
12 PzS 600	DIN 300/227 E	600	227	267	296	36,6

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 120	DIN 365/45 E	120	45	336	365	8,7
3 PzS 180	DIN 365/64 E	180	64	336	365	12,3
4 PzS 240	DIN 365/82 E	240	82	336	365	15,9
5 PzS 300	DIN 365/101 E	300	101	336	365	19,6
6 PzS 360	DIN 365/118 E	360	118	336	365	23,3
7 PzS 420	DIN 365/137 E	420	137	336	365	27,0
8 PzS 480	DIN 365/155 E	480	155	336	365	30,6
9 PzS 540	DIN 365/172 E	540	172	336	365	34,6
10 PzS 600	DIN 365/190 E	600	190	336	365	38,2
12 PzS 720	DIN 365/227 E	720	227	336	365	45,5

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 160	DIN 435/45 E	160	45	404	433	10,6
3 PzS 240	DIN 435/64 E	240	64	404	433	15,1
4 PzS 320	DIN 435/82 E	320	82	404	433	19,6
5 PzS 400	DIN 435/101 E	400	101	404	433	24,1
6 PzS 480	DIN 435/118 E	480	118	404	433	28,6
7 PzS 560	DIN 435/137 E	560	137	404	433	33,1
8 PzS 640	DIN 435/155 E	640	155	404	433	37,6
9 PzS 720	DIN 435/172 E	720	172	404	433	42,5
10 PzS 800	DIN 435/190 E	800	190	404	433	47,0
12 PzS 960	DIN 435/227 E	960	227	404	433	56,0

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 180	DIN 500/47 E	180	47	467	496	12,3
3 PzS 270	DIN 500/65 E	270	65	467	496	17,6
4 PzS 360	DIN 500/83 E	360	83	467	496	22,9
5 PzS 450	DIN 500/101 E	450	101	467	496	28,2
6 PzS 540	DIN 500/119 E	540	119	467	496	33,5
7 PzS 630	DIN 500/137 E	630	137	467	496	38,8
8 PzS 720	DIN 500/155 E	720	155	467	496	44,0
9 PzS 810	DIN 500/173 E	810	173	467	496	49,7
10 PzS 900	DIN 500/192 E	900	192	467	496	55,0
12 PzS 1080	DIN 500/227 E	1080	227	467	496	65,5

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 210	DIN 545/47 E	210	47	512	541	13,1
3 PzS 315	DIN 545/65 E	315	65	512	541	18,8
4 PzS 420	DIN 545/83 E	420	83	512	541	24,4
5 PzS 525	DIN 545/101 E	525	101	512	541	30,0
6 PzS 630	DIN 545/119 E	630	119	512	541	35,6
7 PzS 735	DIN 545/137 E	735	137	512	541	41,2
8 PzS 840	DIN 545/155 E	840	155	512	541	46,9
9 PzS 945	DIN 545/173 E	945	173	512	541	53,0
10 PzS 1050	DIN 545/192 E	1050	192	512	541	58,6
12 PzS 1260	DIN 545/227 E	1260	227	512	541	69,9

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 230	DIN 565/47 E	230	47	532	561	14,3
3 PzS 345	DIN 565/65 E	345	65	532	561	20,3
4 PzS 460	DIN 565/83 E	460	83	532	561	26,3
5 PzS 575	DIN 565/101 E	575	101	532	561	32,4
6 PzS 690	DIN 565/119 E	690	119	532	561	38,5
7 PzS 805	DIN 565/137 E	805	137	532	561	44,5
8 PzS 920	DIN 565/155 E	920	155	532	561	50,6
9 PzS 1035	DIN 565/173 E	1035	173	532	561	57,2
10 PzS 1150	DIN 565/192 E	1150	192	532	561	63,2
12 PzS 1380	DIN 565/227 E	1380	227	532	561	75,4

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 250	DIN 600/47 E	250	47	567	596	15,1
3 PzS 375	DIN 600/65 E	375	65	567	596	21,6
4 PzS 500	DIN 600/83 E	500	83	567	596	28,1
5 PzS 625	DIN 600/101 E	625	101	567	596	34,6
6 PzS 750	DIN 600/119 E	750	119	567	596	41,1
7 PzS 875	DIN 600/137 E	875	137	567	596	47,6
8 PzS 1000	DIN 600/155 E	1000	155	567	596	54,1
9 PzS 1125	DIN 600/173 E	1125	173	567	596	61,1
10 PzS 1250	DIN 600/192 E	1250	192	567	596	67,6
12 PzS 1500	DIN 600/227 E	1500	227	567	596	80,6

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 280	DIN 725/47 E	280	47	690	719	17,7
3 PzS 420	DIN 725/65 E	420	65	690	719	25,3
4 PzS 560	DIN 725/83 E	560	83	690	719	33,0
5 PzS 700	DIN 725/101 E	700	101	690	719	40,7
6 PzS 840	DIN 725/119 E	840	119	690	719	48,2
7 PzS 980	DIN 725/137 E	980	137	690	719	55,9
8 PzS 1120	DIN 725/155 E	1120	155	690	719	63,5
9 PzS 1260	DIN 725/173 E	1260	173	690	719	71,6
10 PzS 1400	DIN 725/192 E	1400	192	690	719	79,2
12 PzS 1680	DIN 725/227 E	1680	227	690	719	94,5

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzS 310	DIN 745/47 E	310	47	710	739	19,3
3 PzS 465	DIN 745/65 E	465	65	710	739	27,6
4 PzS 620	DIN 745/83 E	620	83	710	739	35,8
5 PzS 775	DIN 745/101 E	775	101	710	739	44,1
6 PzS 930	DIN 745/119 E	930	119	710	739	52,4
7 PzS 1085	DIN 745/137 E	1085	137	710	739	60,6
8 PzS 1240	DIN 745/155 E	1240	155	710	739	68,9
9 PzS 1395	DIN 745/173 E	1395	173	710	739	77,6
10 PzS 1550	DIN 745/192 E	1550	192	710	739	85,9
12 PzS 1860	DIN 745/227 E	1860	227	710	739	102,4

EDrive Endurance: BS

Length of EDrive Endurance cells = 158mm



Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 150	BS 540/45 E	150	45	512	541	10,8
3 PzB 225	BS 540/61 E	225	61	512	541	15,0
4 PzB 300	BS 540/77 E	300	77	512	541	19,2
5 PzB 375	BS 540/93 E	375	93	512	541	23,4
6 PzB 450	BS 540/109 E	450	109	512	541	27,6
7 PzB 525	BS 540/125 E	525	125	512	541	31,7

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzB 200	BS 635/45 E	200	45	607	636	12,8
3 PzB 300	BS 635/61 E	300	61	607	636	17,9
4 PzB 400	BS 635/77 E	400	77	607	636	23,0
5 PzB 500	BS 635/93 E	500	93	607	636	28,2
6 PzB 600	BS 635/109 E	600	109	607	636	33,3
7 PzB 700	BS 635/125 E	700	125	607	636	38,4

EDrive Power Square DIN

Length of EDrive Power Square cells = 198mm



Code	Ecobat code	Au/5u	Width	Height 1	Height 2	Weight
2 PsQ 280	DIN 600/47 PsQ	280	47	570	593	15,5
3 PsQ 420	DIN 600/65 PsQ	420	65	570	593	21,9
4 PsQ 560	DIN 600/83 PsQ	560	83	570	593	28,4
5 PsQ 700	DIN 600/101 PsQ	700	101	570	593	35,0
6 PsQ 840	DIN 600/119 PsQ	840	119	570	593	41,5
7 PsQ 980	DIN 600/137 PsQ	980	137	570	593	48,1
8 PsQ 1120	DIN 600/155 PsQ	1120	155	570	593	54,6
9 PsQ 1260	DIN 600/173 DP PsQ	1260	173	570	593	61,6
10 PsQ 1400	DIN 600/191 DP PsQ	1400	191	570	593	68,1
12 PsQ 1680	DIN 600/227 DP PsQ	1680	227	570	593	81,2

Code	Ecobat code	Au/5u	Width	Height 1	Height 2	Weight
2 PsQ 340	DIN 745/47 PsQ	340	47	720	743	22,4
3 PsQ 510	DIN 745/65 PsQ	510	65	720	743	27,4
4 PsQ 680	DIN 745/83 PsQ	680	83	720	743	35,1
5 PsQ 850	DIN 745/101 PsQ	850	101	720	743	43,1
6 PsQ 1020	DIN 745/119 PsQ	1020	119	720	743	51,2
7 PsQ 1190	DIN 745/137 PsQ	1190	137	720	743	59,4
8 PsQ 1360	DIN 745/155 PsQ	1360	155	720	743	67,5
9 PsQ 1530	DIN 745/173 DP PsQ	1530	173	720	743	76,4
10 PsQ 1700	DIN 745/191 DP PsQ	1700	191	720	743	84,5
12 PsQ 2040	DIN 745/227 DP PsQ	2040	227	720	743	100,8

EDrive Traction Gel DIN

Length of EDrive Traction cells = 198mm



Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzV 110	DIN 370/47 G	110	47	342	370	9,3 kg
3 PzV 165	DIN 370/65 G	165	65	342	370	12,7 kg
4 PzV 220	DIN 370/83 G	220	83	342	370	16,5 kg
5 PzV 275	DIN 370/101 G	275	101	342	370	20,1 kg
6 PzV 330	DIN 370/119 G	330	119	342	370	23,8 kg
7 PzV 420	DIN 370/137 G	385	137	342	370	27,4 kg
8 PzV 480	DIN 370/155 G	480	155	342	370	31,1 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzV 140	DIN 430/47 G	140	47	402	430	10,2 kg
3 PzV 210	DIN 430/65 G	210	65	402	430	15,5 kg
4 PzV 280	DIN 430/83 G	280	83	402	430	19,7 kg
5 PzV 350	DIN 430/101 G	350	101	402	430	24,2 kg
6 PzV 420	DIN 430/119 G	420	119	402	430	29,1 kg
7 PzV 525	DIN 430/137 G	525	137	402	430	32,5 kg
8 PzV 600	DIN 430/155 G	600	155	402	430	36,9 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzV 160	DIN 500/47 G	160	47	472	500	12,7 kg
3 PzV 240	DIN 500/65 G	240	65	472	500	18,1 kg
4 PzV 320	DIN 500/83 G	320	83	472	500	23,6 kg
5 PzV 400	DIN 500/101 G	400	101	472	500	29,0 kg
6 PzV 480	DIN 500/119 G	480	119	472	500	35,0 kg
7 PzV 609	DIN 500/137 G	609	137	472	500	39,0 kg
8 PzV 696	DIN 500/155 G	696	155	472	500	44,4 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzV 200	DIN 595/47 G	200	47	563	595	14,7 kg
3 PzV 300	DIN 595/65 G	300	65	563	595	21,6 kg
4 PzV 400	DIN 595/83 G	400	83	563	595	27,8 kg
5 PzV 500	DIN 595/101 G	500	101	563	595	34,3 kg
6 PzV 600	DIN 595/119 G	600	119	563	595	40,6 kg
7 PzV 770	DIN 595/137 G	770	137	563	595	47,1 kg
8 PzV 880	DIN 595/155 G	880	155	563	595	53,6 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzV 240	DIN 750/47 G	240	47	724	750	19,7 kg
3 PzV 360	DIN 750/65 G	360	65	724	750	27,4 kg
4 PzV 480	DIN 750/83 G	480	83	724	750	35,3 kg
5 PzV 600	DIN 750/101 G	600	101	724	750	42,1 kg
6 PzV 720	DIN 750/119 G	720	119	724	750	50,0 kg
7 PzV 980	DIN 750/137 G	980	137	724	750	62,1 kg
8 PzV 1120	DIN 750/155 G	1120	155	724	750	70,4 kg

EDrive Traction Gel BS

Length of EDrive Traction cells = 158mm



Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzVB 122	BS 484/45 G	122	45	456	484	9,7 kg
3 PzVB 183	BS 484/63 G	183	63	456	484	13,5 kg
4 PzVB 244	BS 484/78 G	244	78	456	484	16,9 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzVB 142	BS 544/45 G	142	45	516	544	10,6 kg
3 PzVB 213	BS 544/63 G	213	63	516	544	14,8 kg
4 PzVB 284	BS 544/78 G	284	78	516	544	18,5 kg

Code	Ecobat code	Ah/5h	Width	Height 1	Height 2	Weight
2 PzVB 170	BS 639/45 G	170	45	611	639	11,8 kg
3 PzVB 255	BS 639/63 G	255	63	611	639	16,1 kg
4 PzVB 340	BS 639/78 G	340	78	611	639	20,7 kg



It is essential that electrolyte levels are topped up correctly.

Our Autofill systems make this difficult and dirty job simple and quick.

A 24-cell battery for example can be topped up correctly in 1-2 minutes compared to the 10-15 minutes or more it would take to do it manually.

It's simple! Connect the Autofill system to either a manual hand pump or electric cart with one simple and secure connector and allow the system to do its job.

It's accurate! No more guessing at levels – with Autofill the water supply will shut off automatically when the correct electrolyte level in each cell is reached.

It's clean! No spillage on battery tops and no wiping up afterwards.

It's safe! Because there is no contact with hazardous substances, there is no need for extensive protective clothing and equipment although we would always advise the wearing of safety glasses and gloves during any topping up procedure.

It's cost effective! The cost of adding Autofill to a new battery or retrofitting to an existing one is small and any cost is soon recouped in saved labour time.

Maintaining the correct levels of electrolyte is vital for optimum performance and battery life





Powered Top Up Carts

Being the ideal solution for larger fleets, our range of powered carts will allow you to fill several Autofill equipped batteries anywhere on site quickly, safely and conveniently. Powered by their own internal battery and featuring large water tanks, they can also be fitted with a dispensing gun for use on non-Autofill batteries.

Trolley Top Up Bottle

Additional features include wheels for additional mobility, 15.5 Ltr capacity and can be adapted for manual topping.

Suitable for use with BFS, Aquamatik and most single point watering systems.



De-ionising Systems

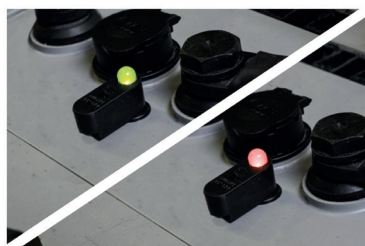
Tap water should never be used to top up batteries as it contains ingredients that are harmful to a battery.

Cost-effective and convenient, our de-ionising systems are wall mounted and easily connected to a water supply. The filter system will take out any impurities in the water supply and dispense de-ionised water suitable for topping up all types of motive power batteries. The cartridges are long lasting and easily swapped making this the cheapest and most convenient method of generating battery quality water for regular maintenance.

We can supply replacement cartridges when required.

Dispense Guns

Dispensing guns can be used with our powered top up carts and allow quicker and more accurate filling of non-Autofill batteries.



Smart Blinky

This device gives an easy-to-see visual warning of when a battery requires topping up.

Powered by the battery itself, the LED indicator shines green when the electrolyte level is OK and it turns red when the battery requires topping up.

This works very well in conjunction with our Autofill systems.

EDRIVE
LITHIUM

**5000 cycles
or 5 years
warranty**



The new generation of EDrive Lithium distinguishes itself on all levels. This is achieved through higher productivity and lower operating costs. The battery effortlessly reaches 5000 cycles and can be discharged up to 95%. When it comes to safety, this battery also scores highly. The built-in BMS is extremely reliable.

What really makes the difference with the new generation of EDrive Lithium? The built-in monitoring system in every battery. This gives the user the possibility to check the status of the entire battery fleet in real time. The charge status, battery voltage, current and even the exact location of each battery are instantly visible.

Higher productivity



No gas formation

Lithium batteries do not form any gas emissions, which means that separate charging chambers are not necessary.



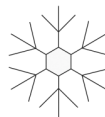
More available energy

An EDrive lithium battery can be discharged up to 95% without affecting the battery's service life. With a lead-acid battery, on the other hand, this is 70-80%.



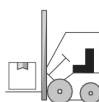
Longer service life

Under the same conditions, the number of cycles is 4 to 5 times higher than with a lead-acid battery.



More efficient at lower temperatures

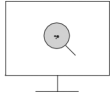
Operational use lies between -10°C and 55°C. This makes EDrive Lithium an excellent solution in cold environments, for example in the food and pharmaceutical industries.



Offers a lot of ease of use

EDrive Lithium batteries can be charged at any location. This offers great ease of use for internal logistic processes.

Reduced operational costs



Monitoring and tracking

Thanks to an intelligent system, all your Lithium batteries can be monitored remotely. The current status of each battery can be consulted immediately.



Plug & play system

EDrive Lithium Batteries can directly replace lead-acid batteries without any technical modifications to the machine.



No maintenance

Lithium batteries require no maintenance.



No need for changeover batteries

When working in several shifts, EDrive Lithium can be an interesting solution. Thanks to short interim charges, you can bridge several shifts without having to change batteries.



Higher energy efficiency

The energy efficiency of the charging process is up to 30% higher than traditional lead-acid batteries.

Safe and environmentally friendly



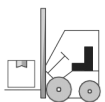
Safer working

No battery changes are necessary, so accidents with heavy batteries can be avoided.



Recycling

Lithium-ion batteries can be recycled after their service life for other purposes.



Flexible loading areas

As no fixed loading bays are required, you can efficiently manage the locations where loading takes place.



No risk of explosion

EDrive Lithium uses LiFePo4 technology with very safe cells and highly reliable BMS.

Fleet management: monitor all your batteries remotely

All EDrive Lithium batteries are equipped with a monitoring system. This gives the user the possibility to check the status of the entire battery fleet in real time. All possible parameters regarding the use of each battery are immediately visible.

Each EDrive Lithium battery also contains an accelerometer. This registers all movements and the use of the machine. All this data is stored and can be read in afterwards.

Would you like to know the exact location of each Lithium battery? That is no problem either. Thanks to a built-in GPS, you get an immediate overview of the location of each battery.





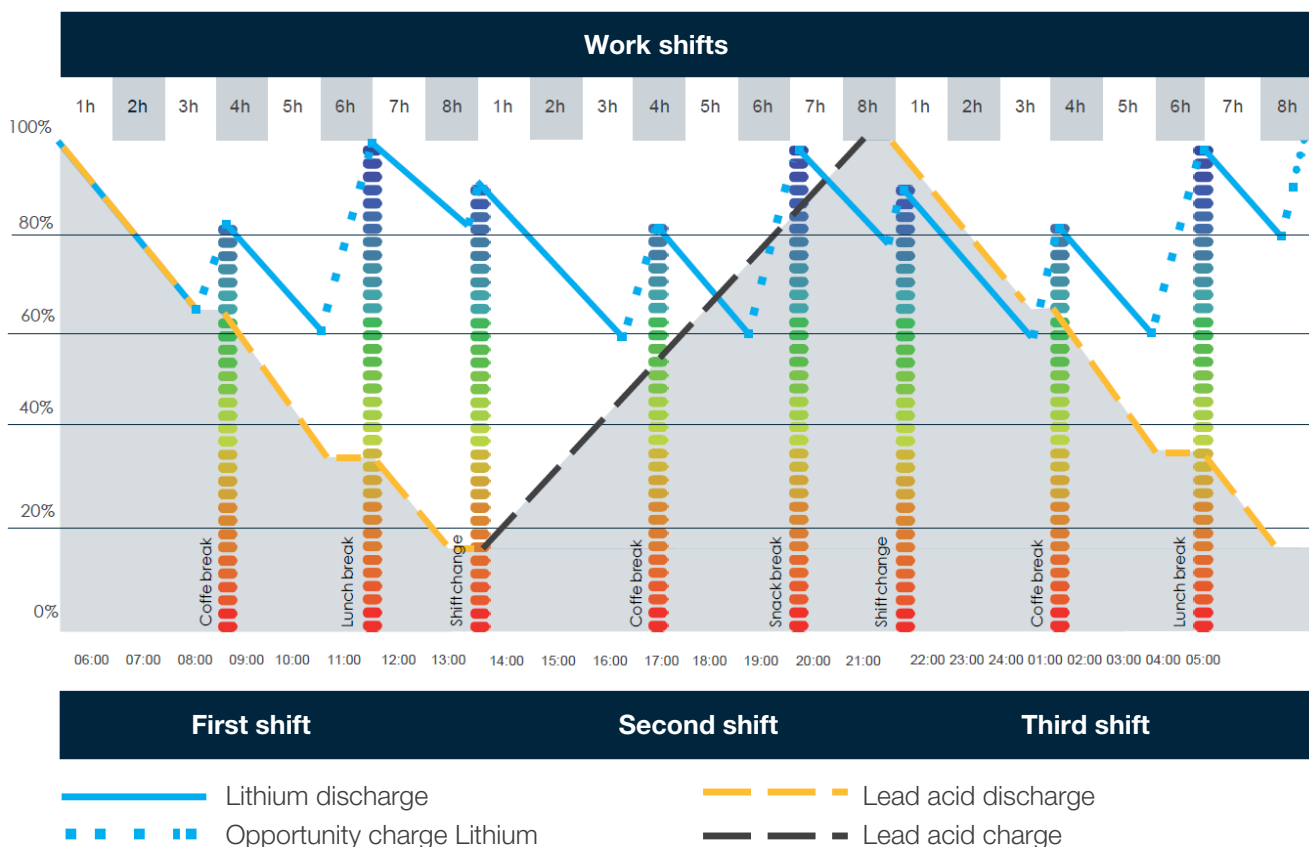
A login gives the user access to the current status of each battery. The software immediately displays all the desired parameters: charge status, battery voltage, current, etc.

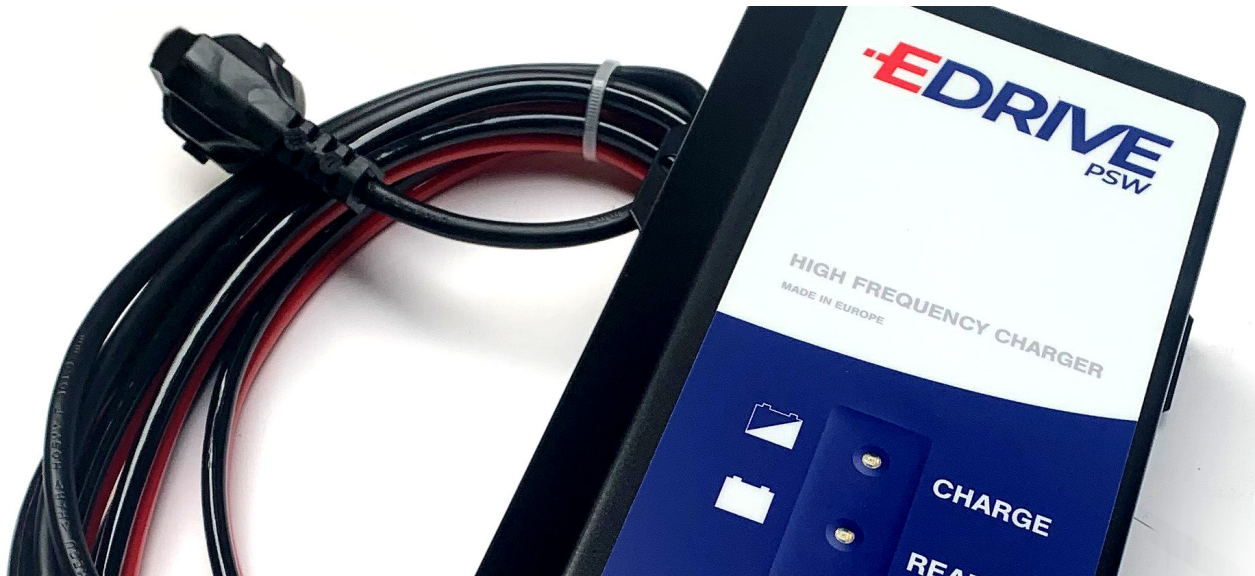
Loading? fast and efficient

A lithium battery performs excellently with short interim charges. This is also known as opportunity charging. With this form of fast charging, higher charge currents are given to the battery. These provide increased capacity within a short time.

When working in several shifts, opportunity charging offers an enormous advantage. Battery changes are no longer necessary. All

that has to be done is to charge the battery every time there is a break. After that, you can continue working as usual. The charging process itself is also extremely flexible. No gases are released when charging a lithium battery. As a result, no separate charging compartments are required and charging can take place anywhere.





The EDrive PSW is the lightest and most compact charger in the high-frequency charger range. If you are looking for a high-frequency charger for smaller applications, the EDrive PSW will most probably be the best choice. This is certainly the case when the power required is not higher than 2 kW. The operation of the device is very easy. If required you can use different options including the Multiprogrammer Top II with which you can read or program the charger.

Advantages of the EDrive PSW

- Simple, efficient and **compact** charger
- Suitable for charging both **traditional and maintenance-free batteries**
- Protected against moisture and dust by resin immersion
- Adjustable for **different capacities**
- With extended memory
- With trickle charging/maintenance charging
- Provided with contact for in-built indicator and immobiliser
- In-built models available
- Charging time between 8 and 13 hours



External LED



With a built-in PSW charger the LEDs are not always visible. An external LED can be used in this case. This option requires no extra installation procedure. All that is needed is a simple plug & play connection. The LED has 3 different statuses: 'charging', 'charging done', 'deep discharging'. If required one can even use the standard built-in relay in the PSW. This can be used to switch off a consumer.



The EDrive Fortis is a highly energy efficient, industrial battery charger for traction batteries. The charger is very easy to use. One can then immediately see the charging status with the LED lights. The modular aspect of the charger enables fully individualised solutions. The EDrive Fortis is also extremely budget-friendly making it the ideal charger for any charging room.

Advantages of the EDrive Fortis

- Efficient and user-friendly industrial charger with PFC controller
- Suitable for charging both traditional and maintenance-free batteries
- Robust and reliable charger
- With readable memory
- Modular construction, individualisation an option: simple service and cost-efficient
- Ideal charger for charging installations
- With trickle charging/maintenance charging
- Charging time of 6 hours possible
- Charging profile adapted to the set battery type
- The status of charging is displayed by 3 LEDs
- Deep discharging battery detection and special program
- Delayed switching to avoid intermediate charging
- Options: signal light for clearly visible charging state indication external relay, remote control
- Desulphation program, galvanic isolation input and output
- Available for all battery voltages



Signal light



An external signal light is a very handy option with the EDrive Fortis. It clearly shows the status of charging using 3 different lights: red, orange and green. There are also 2 outputs for remote display.



Thanks to a thorough upgrade, the new EDrive Flexis Pro has a larger colour screen, a simple modular structure and intelligent charging curves. Battery voltage and capacity is now automatically detected. This brings numerous advantages. No additional settings are required, each battery receives exactly the required charge and water consumption. In addition, the battery also generates less heat, which increases its life span. In short, this makes the EDrive Flexis Pro the most intelligent, flexible and energy-efficient charger on the market today.

The EDrive Flexis Pro is a high-frequency charger that can be used in a wide range of applications. From electric forklifts, stackers, cleaning machines, aerial work platforms to all kinds of electric vehicles. They can all be charged with the EDrive Flexis Pro. Why choose this charger is actually a very simple choice. We would like to make it clear for you and list all the benefits.

Highly energy-efficient battery charger

The EDrive Flexis Pro is one of the most energy-efficient chargers on the market today. Thanks to intelligent charging curves, which ensure that each battery receives exactly the charge it needs. So there is never any overcharging. In concrete terms, up to 96% of the energy actually goes into the battery.

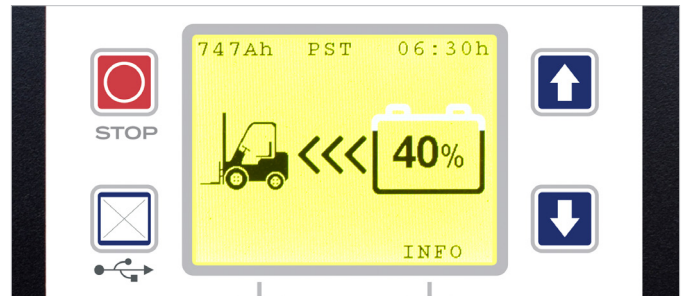


Automatically detects battery voltage and capacity

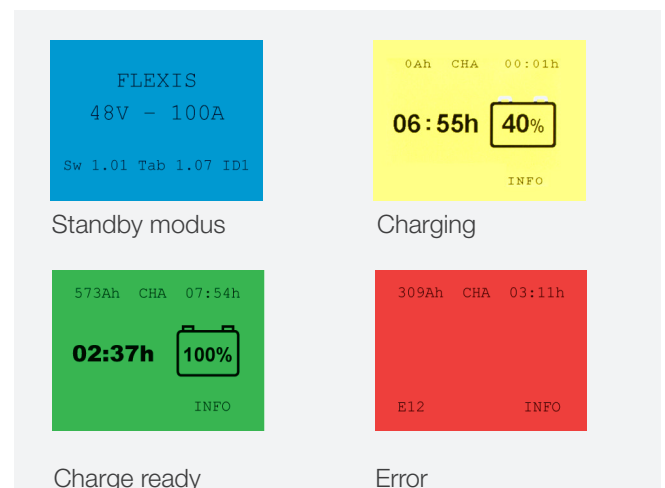
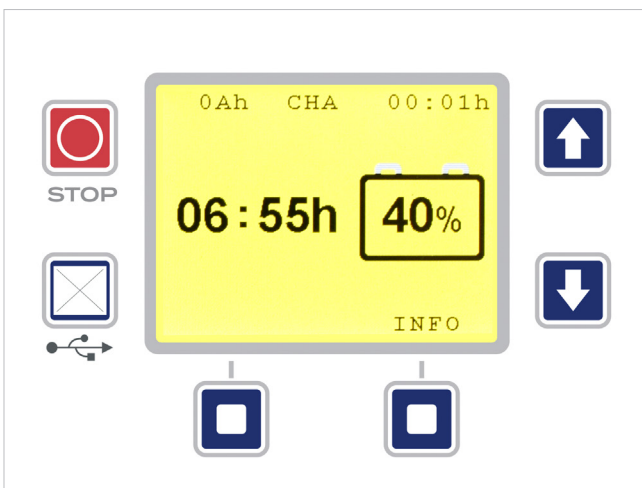
The EDrive Flexis Pro automatically determines the battery's voltage and capacity at the start of charging. The charger's software then determines the ideal charging curve. If necessary, this is adjusted during the charging process. This is called the ARB charging curve, Automatic Recognition Battery. As a result, each battery receives exactly the right amount of charge, and there is never any overcharging. This results in longer battery life and lower energy bills. This is only suitable for wet batteries.

It is possible that different technologies of batteries are used interchangeably. Such as gel and wet. In this case, identification modules can be placed on the battery. These modules tell the charger which charging graph should be used to charge the connected battery. Both options make it possible to charge

different types of batteries with one charger, without having to make adjustments yourself. This makes the EDrive Flexis Pro very simple and easy to use.



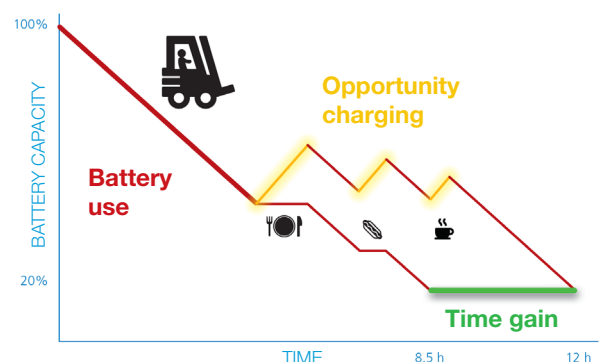
User-friendly and clear full colour display



The EDrive Flexis Pro is equipped with a large and clear colour display. This ensures pleasant and easy operation. The status is clearly visible from a distance due to different colours. Blue, yellow, green and red (see above). The estimated time until the end of the charge is also clearly displayed. In the example above, the charge is completed in 6 hours and 55 minutes.

Possibility of intermediate recharging and fast charging (opportunity charging)

It is possible to set Flexis Pro chargers for opportunity charging. In this form of fast charging, higher charge currents are given to the battery. They provide an increased capacity in a short time. In this way, it is possible to recover 30% of capacity within one hour. This is ideal when working one shift and there is just not enough capacity to get through the day. In this case, fast charging can solve the problem perfectly, for example during the lunch break. Opportunity charging can be set to happen on certain days between predefined hours. All charging outside of these days or hours will then be carried out with a normal charging profile. Once a week, however, each battery should receive a normal, slow charge. When using opportunity charging, a temperature sensor is strongly recommended. The charger must also be adapted to its use. That is why we would like to discuss the specific possibilities of opportunity charging with you personally.



Very robust, industrial and modular charger

The charger has a very solid and robust housing. This makes it perfect for use in any industrial environment. The charger can also be easily suspended. No additional mounting accessories are required. During the development and design of the EDrive Flexis

Pro, a strong modular structure was chosen. As advantage the components and modules can easily be added or changed at a later date.

EDrive Take This System

EDrive Take this is a FIFO system. It ensures that the user is more or less obliged to take the battery that has been ready for charging already the longest time. It consists of a small unit with a display showing the number of the charger that has been ready for the longest time. This is the battery that should be taken. If the user takes another battery, an alarm will sound. This alarm is expandable and audible.

The EDrive Take This system works for one type of battery: for example 24V, 250Ah or 48V, 620Ah. One Take This system must be implemented per group of batteries of the same type.



EDrive Axinet

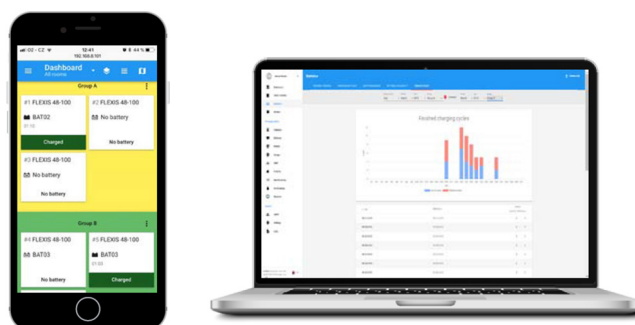
EDrive Axinet is the highly advanced version of the Take This system. It provides a fully digital management of your entire battery fleet and all processes associated with it. It works perfectly with all types of batteries mixed together and can be monitored via a VPN browser or mobile version. The system can be configured completely according to your needs and is even capable of linking several charging stations together.

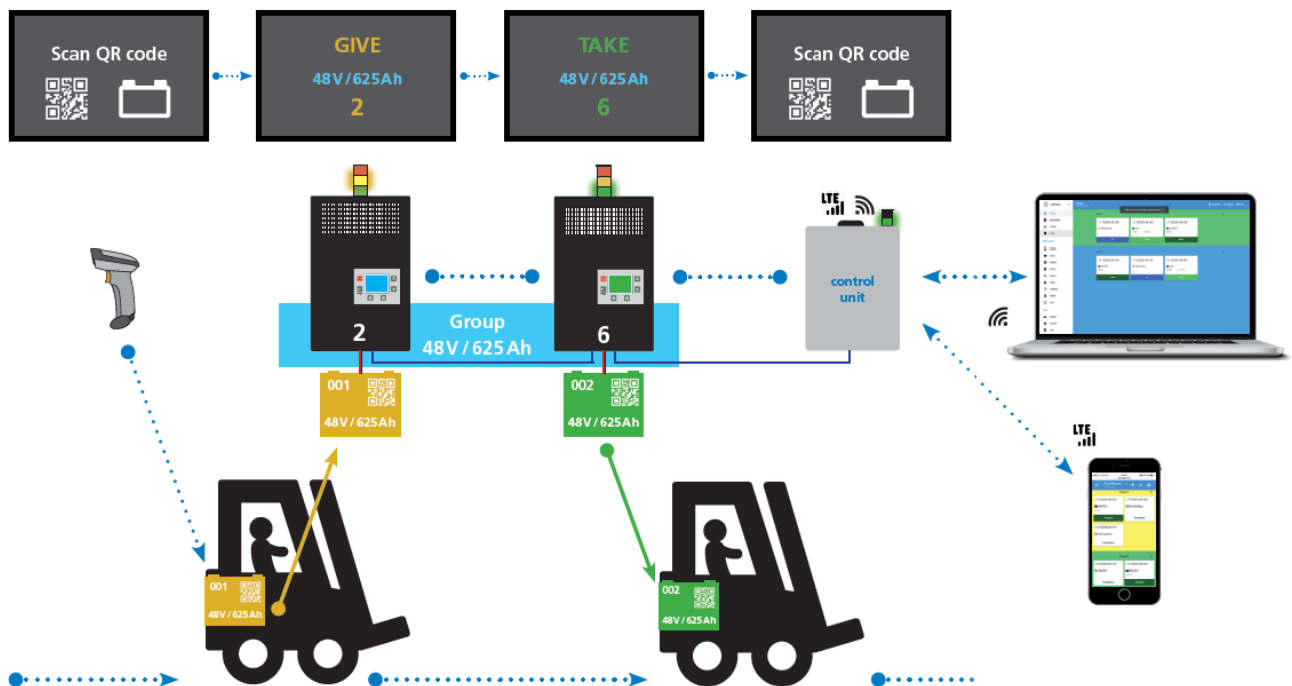
What are the advantages?

There is a constant digital overview of the status of all batteries: which batteries are charging, which still need to be charged, who took which battery and who took the wrong one, when did an error message occur, etc. Detailed reports can also be requested on the use of each battery. For example, how many Ah are used per cycle and how many cycles each battery has done. Because the use of the entire battery fleet becomes very clear, the life span of each individual battery can be greatly extended. This allows one to control and budget for potential costs. Axinet has built in several alarms just like the Take This system. This allows for early detection of possible errors. The system also allows several people to receive

an e-mail when a user does something wrong or when a charger or battery gives an error message.

When complete control is required as a management system over your batteries, chargers and users, there is only one answer. EDrive Axinet.





Available in IP54 housing



The EDrive Flexis Pro can also be supplied with an IP54 housing. This degree offers a water protection of up to 10 litres per minute. This allows the charger to be used very safely in humid environments.

The IP54 standard makes the charger not only moisture-proof, but also completely dust-proof. Thanks to this option, the EDrive Flexis Pro also functions perfectly in dusty environments.

Temperature sensor ensures a very safe charge

It is possible to connect a temperature sensor via the auxiliary contact that continuously monitors the temperature of the battery. Various actions can be taken. In the event of an acute risk of overheating, the EDrive Flexis Pro will immediately stop charging or reduce the charging current sharply in order to lower a possible overheating temperature. This prevents dangerous situations and also increases the lifespan of the battery. In addition, possible defects in the battery can be detected at an early stage.

Possibility of CAN communication, crucial for lithium batteries

CAN communication is an ICT language that allows different devices to communicate with each other. In this case, for example, the battery and the charger. The battery and charger tell each other what to do and when to do it. This is particularly applicable for lithium batteries, as these are usually equipped with CAN communication.

Suitable for very high voltages, up to 600V

The EDrive Flexis Pro is available for all battery voltages, including batteries up to 600V. This makes the charger a perfect solution for a modern environment with lithium batteries at high voltages.

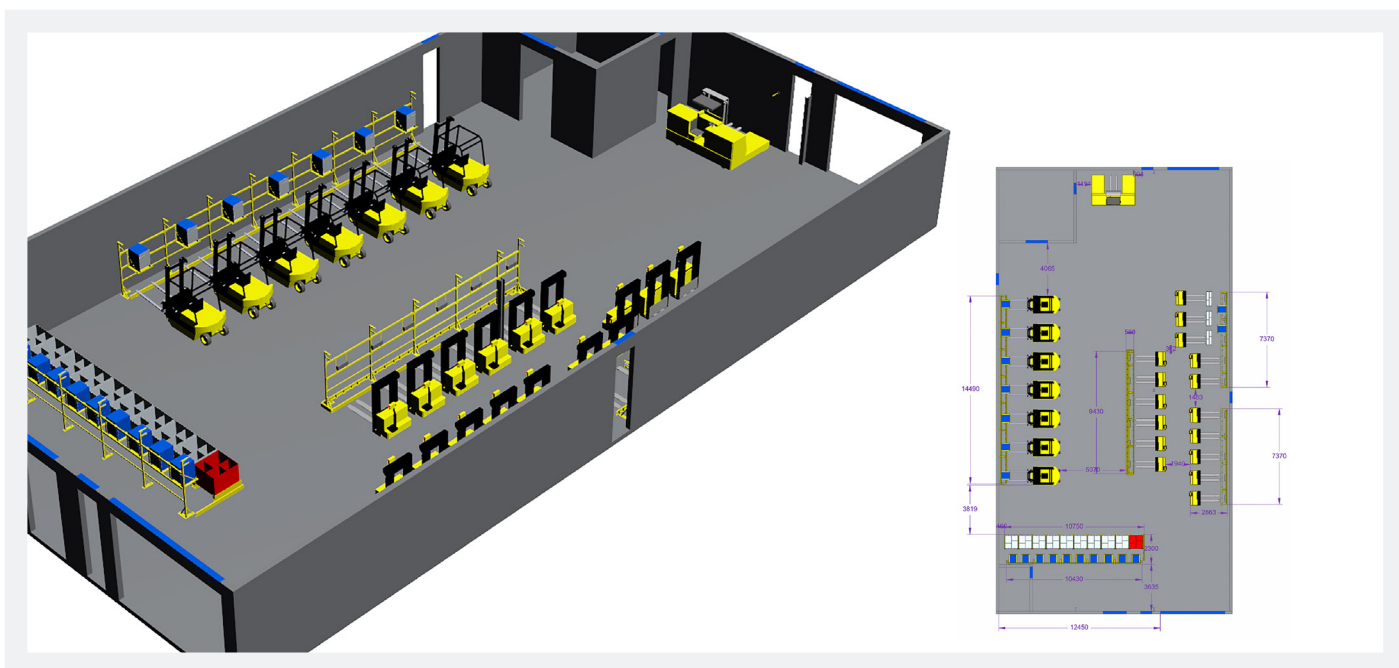
Ideal charger for equipping charging stations



The ED Drive Flexis Pro chargers are easy to mount without additional tools. This makes them, in addition to their technical capacities, extremely suitable for equipping charging stations. The large colour display and the signal light option allow you to see from a distance which batteries are ready for charging. If you also opt for the integration of a FIFO system ED Drive Take This or ED Drive Axinett, the

service life of the batteries is also greatly extended.

Ecobat will always advise you the most efficient solution for your charging room. Do you want to use exchange systems, roller tables, suspension constructions for your loaders, ... We realize it for you!



Custom made solutions



Are you looking for a charger that has to meet specific requirements? Contact us and we will work out a customised solution for you. When it comes to customisation, the possibilities are endless and we are happy to take on any challenge!

EDrive PSW



Charger	Voltage (V)	Charging current (A)	Case	Weight (kg)	Power (kW)	Min. Ah/5h	Trad. 13h Max. Ah/5h	Trad. 11h Max. Ah/5h	Trad. 8h Max. Ah/5h	Maintenance free 13h Max. Ah/5h
PSW170 12V	12	2,5-12	A	1,3	0,23	30	140	120	80	120
PSW350 12V		10-25	A	1,3	0,45	100	300	240	160	240
PSW350 12/24V	12/24	2,5-12	A	1,3	0,41	30	140	120	80	120
PSW350 24V	24	2,5-12	A	1,3	0,41	30	140	120	80	120
PSW500 24V		7-20	A	1,3	0,67	80	240	200	120	200
PSW500 24V DI		7-20	A	3,1	0,67	80	240	200	120	200
PSW1000 24V		10-30	B	3,4	1	120	360	300	180	300
PSW1000 24V DI		10-30	B*	3,1	1	120	360	300	180	300
PSW1800 24V		15-60	C	3,9	2	180	720	600	360	600
PSW3000 24V		18-90	E	7,2	3,1	270	1080	900	540	900
PSW4000 24V T		25-120	F	10,9	4	360	1400	1200	720	1200
PSW1000 36V	36	7-20	B	2,3	1	80	240	200	120	200
PSW1000 36V DI		7-20	B*	3,1	1	80	240	200	120	200
PSW1800 36V		15-40	C	3,9	2	160	480	420	240	420
PSW3000 36V		15-70	E	7,2	3,6	180	840	720	420	720
PSW4000 36V T		20-80	F	11,3	4	300	960	840	480	840
PSW6500 36V T		25-120	F	11,5	6	360	1400	1200	720	1200
PSW1000 48V	48	5-15	B	2,3	1	60	180	160	80	160
PSW1800 48V		10-30	C	3,9	2	120	360	300	180	300
PSW3000 48V		16-55	E	7,2	3,7	180	660	540	330	540
PSW4000 48V IP:B32		16-65	E	7,2	4,4	180	780	660	420	660
PSW4000 48V T		20-80	F	11,3	5,3	300	960	840	480	840
PSW6500 48V T		25-120	F	11,5	8,1	360	1400	1200	720	1200
PSW8000 48V T		50-160	H	22,7	10,6	600	1900	1600	960	1600
PSW13K 48VT		60-240	H	23	16,2	720	2800	2400	1400	2400
PSW3000 72V	72	10-30	E	7,2	3,1	120	360	300	180	300
PSW3500 72V T		15-40	F	10,9	4	160	480	420	240	420
PSW4000 72V IP: B32		15-40	E	7,2	4,1	160	480	420	240	400
PSW7000 72V T		20-80	F	12,3	8	300	960	840	480	840
PSW10K5 72V T		30-120	H	23,2	12	360	1400	1200	720	1200
PSW14K 72VT		50-160	H	24,7	16	600	1900	1600	960	1600
PSW3000 80V	80	10-30	E	7,2	3,4	120	360	300	180	300
PSW3500 80V T		15-40	F	10,9	4,3	160	480	420	240	420
PSW4000 80V IP:B32		15-40	E	7,2	4,5	160	480	420	240	400
PSW7000 80V T		20-80	F	12,3	8,5	300	960	840	480	840
PSW10K5 80V T		30-120	H	23,2	12,8	360	1400	1200	720	1200
PSW14K 80 V T		50-160	H	24,7	17,6	600	1900	1600	960	1600

Case	Length	Width	Height
A	233	120	67
B	259	145	82
B*	259	177	82
C	329	174	99
D	329	303	99
E	420	303	103
F	540	333	131
G	540	340	210
H	590	435	265



Technical specifications

EDrive chargers

EDrive Fortis

Charging capacities for wet batteries



Charger	Voltage (V)	Charging current (A)	Case	Weight (kg)	Power (kW)	Min. Ah/5h	Trad. 6,5h Max. Ah/5h	Trad. 8h Max. Ah/5h	Trad. 10h Max. Ah/5h	Trad. 12h Max. Ah/5h
FORTIS 12/24-60M	12/24	60	B	13	2,0	0	308	423	571	723
FORTIS 12/24-100M		100	B	13	3,2	308	513	704	952	1205
FORTIS 12/24-100T		100	B	14	3,2	308	513	704	952	1205
FORTIS 12/24-200T		200	C	25	6,5	513	1026	1408	1905	2410
FORTIS 36/48-50M	36/48	50	B	13	3,2	0	256	352	476	602
FORTIS 36/48-50T		50	B	14	3,2	0	256	352	476	602
FORTIS 36/48-100T		100	B	18	6,5	256	513	704	952	1205
FORTIS 36/48-150T		150	C	27	9,7	513	769	1056	1429	1807
FORTIS 36/48-200T		200	C	30	13,0	769	1026	1408	1905	2410
FORTIS 80/96-25M	80/96	25	B	13	2,7	0	128	176	238	301
FORTIS 80/96-25T		25	B	14	2,7	0	128	176	238	301
FORTIS 80/96-50T		50	B	17	5,4	128	256	352	476	602
FORTIS 80/96-75T		75	C	26	8,1	256	385	528	714	904
FORTIS 80/96-100T		100	C	28	11,0	385	513	704	952	1205
FORTIS 80/96-125T		125	D	37	13,5	513	641	880	1190	1506
FORTIS 80/96-150T		150	D	40	16,2	641	769	1056	1429	1807
FORTIS 80/96-175T		175	E	49	18,9	769	897	1232	1667	2108
FORTIS 80/96-200T		200	E	52	21,0	897	1026	1408	1905	2410
FORTIS 80/96-225T		225	F	63	24,3	1026	1154	1585	2143	2711

Case	Length	Width	Height
B	302	169	477
C	302	254	477
D	302	339	477
E	547	339	477
F	717	339	477



EDrive Fortis

Charging capacities for maintenance-free batteries



Charger	Voltage (V)	Charging current (A)	Case	Weight (kg)	Power (kW)	Min. Ah/5h	Maintenance-free 8h Max. Ah/5h	Maintenance-free 10h Max. Ah/5h	Maintenance-free 12h Max. Ah/5h	Maintenance-free 14h Max. Ah/5h
FORTIS 12/24-60M	12/24	60	B	13	2,0	0	240	316	420	522
FORTIS 12/24-100M		100	B	13	3,2	240	400	526	699	870
FORTIS 12/24-100T		100	B	14	3,2	240	400	526	699	870
FORTIS 12/24-200T		200	C	25	6,5	400	800	1053	1399	1739
FORTIS 36/48-50M	36/48	50	B	13	3,2	0	200	263	350	435
FORTIS 36/48-50T		50	B	14	3,2	0	200	263	350	435
FORTIS 36/48-100T		100	B	18	6,5	200	368	482	640	796
FORTIS 36/48-150T		150	C	27	9,7	368	570	745	990	1230
FORTIS 36/48-200T		200	C	30	13,0	570	740	963	1280	1591
FORTIS 80/96-25M	80/96	25	B	13	2,7	0	100	132	175	217
FORTIS 80/96-25T		25	B	14	2,7	0	100	132	175	217
FORTIS 80/96-50T		50	B	17	5,4	100	200	263	350	435
FORTIS 80/96-75T		75	C	26	8,1	200	300	395	524	652
FORTIS 80/96-100T		100	C	28	11,0	300	400	526	699	870
FORTIS 80/96-125T		125	D	37	13,5	400	500	658	874	1087
FORTIS 80/96-150T		150	D	40	16,2	500	600	789	1049	1304
FORTIS 80/96-175T		175	E	49	18,9	600	700	921	1224	1522
FORTIS 80/96-200T		200	E	52	21,0	700	800	1053	1399	1739
FORTIS 80/96-225T		225	F	63	24,3	800	900	1184	1573	1957

Case	Length	Width	Height
B	302	169	477
C	302	254	477
D	302	339	477
E	547	339	477
F	717	339	477



Technical specifications

EDrive chargers

EDrive Flexis Pro

Charging capacities for wet batteries



Charger	Voltage (V)	Charging current (A)	Case	Weight (kg)	Power (kW)	Min. Ah/5h	Trad. 6,5h Max. Ah/5h	Trad. 8h Max. Ah/5h	Trad. 10h Max. Ah/5h	Trad. 12h Max. Ah/5h
FLEXIS 12/24-60M	12/24	60	B	13	2,0	0	308	423	571	723
FLEXIS 12/24-100M		100	B	13	3,2	308	513	704	952	1205
FLEXIS 12/24-100T		100	B	14	3,2	308	513	704	952	1205
FLEXIS 12/24-200T		200	C	25	6,5	513	1026	1408	1905	2410
FLEXIS 36/48-50M	36/48	50	B	13	3,2	0	256	352	476	602
FLEXIS 36/48-50T		50	B	14	3,2	0	256	352	476	602
FLEXIS 36/48-100T		100	B	18	6,5	256	513	704	952	1205
FLEXIS 36/48-150T		150	C	27	9,7	513	769	1056	1429	1807
FLEXIS 36/48-200T	80/96	200	C	30	13,0	769	1026	1408	1905	2410
FLEXIS 80/96-25M		25	B	13	2,7	0	128	176	238	301
FLEXIS 80/96-25T		25	B	14	2,7	0	128	176	238	301
FLEXIS 80/96-50T		50	B	17	5,4	128	256	352	476	602
FLEXIS 80/96-75T		75	C	26	8,1	256	385	528	714	904
FLEXIS 80/96-100T		100	C	28	11,0	385	513	704	952	1205
FLEXIS 80/96-125T		125	D	37	13,5	513	641	880	1190	1506
FLEXIS 80/96-150T		150	D	40	16,2	641	769	1056	1429	1807
FLEXIS 80/96-175T		175	E	49	18,9	769	897	1232	1667	2108
FLEXIS 80/96-200T		200	E	52	21,0	897	1026	1408	1905	2410
FLEXIS 80/96-225T		225	F	63	24,3	1026	1154	1585	2143	2711

Case	Length	Width	Height
B	302	169	477
C	302	254	477
D	302	339	477
E	547	339	477
F	717	339	477



EDrive Flexis Pro

Charging capacities for maintenance-free batteries



Charger	Voltage (V)	Charging current (A)	Case	Weight (kg)	Power (kW)	Min. Ah/5h	Maintenance-free 8h Max. Ah/5h	Maintenance-free 10h Max. Ah/5h	Maintenance-free 12h Max. Ah/5h	Maintenance-free 14h Max. Ah/5h
FLEXIS 12/24-60M	12/24	60	B	13	2,0	0	240	316	420	522
FLEXIS 12/24-100M		100	B	13	3,2	240	400	526	699	870
FLEXIS 12/24-100T		100	B	14	3,2	240	400	526	699	870
FLEXIS 12/24-200T		200	C	25	6,5	400	800	1053	1399	1739
FLEXIS 36/48-50M	36/48	50	B	13	3,2	0	200	263	350	435
FLEXIS 36/48-50T		50	B	14	3,2	0	200	263	350	435
FLEXIS 36/48-100T		100	B	18	6,5	200	368	482	640	796
FLEXIS 36/48-150T		150	C	27	9,7	368	570	745	990	1230
FLEXIS 36/48-200T		200	C	30	13,0	570	740	963	1280	1591
FLEXIS 80/96-25M	80/96	25	B	13	2,7	0	100	132	175	217
FLEXIS 80/96-25T		25	B	14	2,7	0	100	132	175	217
FLEXIS 80/96-50T		50	B	17	5,4	100	200	263	350	435
FLEXIS 80/96-75T		75	C	26	8,1	200	300	395	524	652
FLEXIS 80/96-100T		100	C	28	11,0	300	400	526	699	870
FLEXIS 80/96-125T		125	D	37	13,5	400	500	658	874	1087
FLEXIS 80/96-150T		150	D	40	16,2	500	600	789	1049	1304
FLEXIS 80/96-175T		175	E	49	18,9	600	700	921	1224	1522
FLEXIS 80/96-200T		200	E	52	21,0	700	800	1053	1399	1739
FLEXIS 80/96-225T		225	F	63	24,3	800	900	1184	1573	1957

Case	Length	Width	Height
B	302	169	477
C	302	254	477
D	302	339	477
E	547	339	477
F	717	339	477



Technical specifications

EDrive chargers

EDrive Flexis Pro

Charging capacities for chargers with pump for acid circulation



Charger	Voltage (V)	Charging current (A)	Case	Weight (kg)	Power (kW)	Min. Ah/5h	Trad. 6,5h Max. Ah/5h	Trad. 8h Max. Ah/5h	Trad. 10h Max. Ah/5h	Trad. 12h Max. Ah/5h
FLEXIS 12/24-60MP	12/24	60	B	15	2,0	0	308	462	619	769
FLEXIS 12/24-100MP		100	B	15	3,2	308	513	769	1031	1282
FLEXIS 12/24-100TP		100	B	16	3,2	308	513	769	1031	1282
FLEXIS 12/24-200TP		200	C	26	6,5	513	1026	1538	2062	2564
FLEXIS 36/48-50MP	36/48	50	B	15	3,2	0	256	385	515	641
FLEXIS 36/48-50TP		50	B	16	3,2	0	256	385	515	641
FLEXIS 36/48-100TP		100	B	20	6,5	256	513	769	1031	1282
FLEXIS 36/48-150TP		150	C	28	9,7	513	769	1154	1546	1923
FLEXIS 36/48-200TP		200	C	31	13,0	769	1026	1538	2062	2564
FLEXIS 80/96-25MP	80/96	25	C	16	2,7	0	128	192	258	321
FLEXIS 80/96-25TP		25	C	17	2,7	0	128	192	258	321
FLEXIS 80/96-50TP		50	C	20	5,4	128	256	385	515	641
FLEXIS 80/96-75TP		75	D	30	8,1	256	385	577	773	962
FLEXIS 80/96-100TP		100	D	32	11,0	385	513	769	1031	1282
FLEXIS 80/96-125TP		125	E	42	13,5	513	641	962	1289	1603
FLEXIS 80/96-150TP		150	E	45	16,2	641	769	1154	1546	1923
FLEXIS 80/96-175TP		175	E	54	18,9	769	897	1346	1804	2244
FLEXIS 80/96-200TP		200	E	56	21,0	897	1026	1538	2062	2564
FLEXIS 80/96-225TP		225	F	65	24,3	1026	1154	1731	2320	2885

Case	Length	Width	Height
B	302	169	477
C	302	254	477
D	302	339	477
E	547	339	477
F	717	339	477



ACES sealed battery chargers 300-5000W

ACES sealed battery chargers are based on the latest technologies that result in very compact size and low weight.

This is accomplished by high frequency LLC conversion technology that has a very high efficiency of up to 94%.

All the chargers have Power Factor Correction (PFC) resulting in clean sinewave shaped AC-mains current and the lowest possible current draw from the grid. Combining this with a sealed IP67 design and a very high reliability makes this chargers very attractive for many applications. These chargers are tested under harsh conditions and more than 100000 are already operating in field applications.

The chargers are available in 6 power classes of 300, 700, 1350, 2000, 3300, 5000W for Lithium or Lead Acid.



Current (A)									
	5-10	10-15	15-20	20-25	25-30	30-35	35-50	50-60	80-100
12-16V									
24-34V									
36-51V									
48-68V									
60-85V									
72-102V									
80-113V									
144-168V									
Model >	300W	700W	1350W		2000W		3300W		5000W



Battery chargers for battery type

The ACES battery chargers can be used for following battery types:

- LA series
Lead acid batteries AGM and Flooded (not suitable for GEL)
- LI series
Lithium Ion NMC or NCA batteries
- LF series
Lithium Iron Phosphate (LFP) batteries
- These chargers have a unique cell balancing mode at the end of charging

Technical specification 300-3300W 1phase input models

- Input voltage 170-264V ac; 45-65Hz
- Efficiency: > 94%
- Power factor: > 0.99
- Noise: <45...60 dBA
- Temperature range: -20...45°C
- Protection level: IP67
- Protections: Over temperature, Reverse connection, Idle, Short circuit, auto stop, charge below 0°C (Lithium)
- Interlock protection to prevent drive away during charging (not on 700W model)
- CAN-bus and 12V auxiliary output (not on 700W model)
- CE certification

5000W 3-phase input Model with Bluetooth



Technical specification 5000W 3-phase input model

- Input voltage 260...457V ac; 45-65Hz
- Efficiency: 90%
- Power factor: > 0.95
- Noise: <45...60dBA
- Temperature range: -20...45°C
- Protection level: IP67
- Protections: Over temperature, Reverse connection, Idle, Short circuit, auto stop, charge below 0°C (Lithium)
- Interlock protection as option if no CAN-bus
- CAN-bus and 12V auxiliary output
- CE certification

LA Series

Part Number	Nominal Voltage (V)	Max Charge Current (A)	Min Capacity (Ah)	Max Capacity (Ah)	Interlock Protection	Temp Comp 0°C Protect	DC Out Connector	DC Out Cable	Weight (Kg)	Dimensions (mm)
ABC300F-2412LA	24	29.2	12	180	yes	no	SB50	2m 4mm ²	1.2	205 x 123 x 65
ABC300F-4805LA	48	58.4	5	80	yes	no	SB50	2m 4mm ²	1.2	205 x 123 x 65
ABC700-2420LA	24	29.4	20	320	no	no	SB50	2m 4mm ²	2	187 x 123 x 68
ABC900F-2430LA	24	29.2	30	450	yes	yes	SB50	2m 6mm ²	3	231 x 136 x 72
ABC900F-4818LA	48	58.4	18	250	yes	yes	SB50	2m 6mm ²	3	231 x 136 x 72
ABC1350-2425LA	24	29.2	25	400	yes	yes	SB50	2m 6mm ²	3.5	281 x 128 x 85
ABC1350-3630LA	36	43.8	30	450	yes	yes	SB50	2m 6mm ²	3.5	281 x 128 x 85
ABC1350-4825LA	48	58.8	30	400	yes	yes	SB50	2m 6mm ²	3.5	281 x 128 x 85
ABC1350-7218LA	72	88.2	18	240	yes	yes	SB50	2m 6mm ²	3.5	281 x 128 x 85
ABC2000-2450LA	24	29.4	50	800	yes	yes	SB50	3m 10mm ²	4.5	282 x 181 x 98
ABC2000-4835LA	48	58.8	35	500	yes	yes	SB50	3m 10mm ²	4.5	282 x 181 x 98
ABC2000-7225LA	72	88.2	25	400	yes	yes	SB50	3m 10mm ²	4.5	282 x 181 x 98
ABC5000-24100LA	24	29.4	100	1600	CAN/BT	yes	SB175	3m 16mm ²	18	419 x 282 x 101
ABCS000-4880LA	48	58.8	80	1280	CAN/BT	yes	SB175	3m 16mm ²	18	419 x 282 x 101
ABCS000-7260LA	72	88.2	60	960	CAN/BT	yes	SB175	3m 10mm ²	18	419 x 282 x 101

IP rating 67, Battery Type LA

LI Series

Part Number	Nominal Voltage (V)	Max Charge Current (A)	Min Capacity (Ah)	Max Capacity (Ah)	Interlock Protection	Temp Comp 0°C Protect	DC Out Connector	DC Out Cable	Weight (Kg)	Dimensions (mm)
ABC300F-2412LI	24	29,4	12	100	yes	no	SB50	2m 4mm ²	1.2	205 x 123 x 65
ABC300F-4805LI	48	58,5	5	50	yes	no	SB50	2m 4mm ²	1.2	205 x 123 x 65
ABC700-2420LI	24	29,4	20	200	yes	no	SB50	2m 4mm ²	2	187 x 123 x 68
ABC700-4810LI	48	58,5	10	100	yes	no	SB50	2m 4mm ²	2	187 x 123 x 68
ABC900F-2430LI	24	29,4	30	300	yes	yes	SB50	2m 6mm ²	3	231 x 136 x 72
ABC900F-4818LI	48	58,5	18	180	yes	yes	SB50	2m 6mm ²	3	231 x 136 x 72
ABC1350-2425LI	24	29,4	25	250	yes	yes	SB50	2m 6mm ²	3.5	281 x 128 x 85
ABC1350-4825LI	48	58,5	25	250	yes	yes	SB50	2m 6mm ²	3.5	281 x 128 x 85
ABC1350-7218LI	72	84	18	180	yes	yes	SB50	2m 6mm ²	3.5	281 x 128 x 85
ABC2000-2450LI	24	29,4	50	500	yes	yes	SB50	3m 10mm ²	4.5	282 x 181 x 98
ABC2000-4835LI	48	58,5	35	350	yes	yes	SB50	3m 10mm ²	4.5	282 x 181 x 98
ABC2000-7225LI	72	84	25	250	yes	yes	SB50	3m 10mm ²	4.5	282 x 181 x 98
ABC3300-4850LI	48	58,5	50	500	yes	yes	SB50	3m 10mm ²	6	350 x 188 x 99
ABC3300-7235LI	72	84	35	350	yes	yes	SB50	3m 10mm ²	6	350 x 188 x 99
ABC5000-4880LI	48	58,5	80	350	CAN/BT	yes	SB175	3m 16mm ²	18	419 x 282 x 101
ABC5000-7260LI	72	84	60	600	CAN/BT	yes	SB175	3m 10mm ²	18	419 x 282 x 101
ABC5000-8450LI	84	100,8	50	500	CAN/BT	yes	SB175	3m 10mm ²	18	419 x 282 x 101

IP rating 67, Battery Type LI

LF Series

Part Number	Nominal Voltage (V)	Max Charge Current (A)	Min Capacity (Ah)	Max Capacity (Ah)	Interlock Protection	Temp Comp 0°C Protect	DC Out Connector	DC Out Cable	Weight (Kg)	Dimensions (mm)
ABC300-2412LF	24	29,4	12	100	yes	no	SB50	2m 4mm ²	1,2	205 x 123 x 65
ABC300-4805LF	48	58,5	5	50	yes	no	SB50	2m 4mm ²	1,2	205 x 123 x 65
ABC700-1220LF	12	14,4	20	200	no	no	SB50	2m 4mm ²	2	187 x 123 x 68
ABC700-2420LF	24	28,8	20	200	no	no	SB50	2m 4mm ²	2	187 x 123 x 68
ABC700-4810LF	48	57,6	10	100	no	no	SB50	2m 4mm ²	2	187 x 123 x 68
ABC900F-2430LF	24	28,8	30	300	yes	yes	SB50	2m 6mm ²	3	231 x 136 x 72
ABC900F-4815LF	48	57,6	18	180	yes	yes	SB50	2m 6mm ²	3	231 x 136 x 72
ABC1000-1260LF	12	14,4	60	600	no	yes	SB175	2m 6mm ²	8,2	310 x 230 x 101
ABC1350-2425LF	24	28,8	25	250	yes	yes	SB50	2m 6mm ²	3,5	281 x 128 x 85
ABC1350-4825LF	48	57,6	25	250	yes	yes	SB50	2m 6mm ²	3,5	281 x 128 x 85
ABC1350-7218LF	72	84	18	180	yes	yes	SB50	2m 6mm ²	3,5	281 x 128 x 85
ABC2000-2450LF	24	28,8	50	500	yes	yes	SB50	3m 10mm ²	4,5	282 x 181 x 98
ABC2000-4835LF	48	57,6	35	350	yes	yes	SB50	3m 10mm ²	4,5	282 x 181 x 98
ABC2000-7225LF	72	84	25	250	yes	yes	SB50	3m 10mm ²	4,5	282 x 181 x 98
ABC3300-4850LF	48	57,6	50	500	yes	yes	SB50	3m 10mm ²	6	350 x 188 x 99
ABC3300-7235LF	72	84	35	350	yes	yes	SB50	3m 10mm ²	6	350 x 188 x 99
ABC5000-24100LF	24	28,8	100	1000	CAN/BT	yes	SB175	3m 16mm ²	18	419 x 282 x 101
ABC5000-4880LF	48	57,6	80	350	CAN/BT	yes	SB175	3m 16mm ²	18	419 x 282 x 101
ABC5000-7260LF	72	82,8 / 86,4	60	600	CAN/BT	yes	SB175	3m 10mm ²	18	419 x 282 x 101
ABC5000-8450LF	84	93,6	50	500	CAN/BT	yes	SB175	3m 10mm ²	18	419 x 282 x 101

IP rating 67, Battery Type LF

Fast, Smart, Safe.

The new ECOBAT chargers are now available from all Ecobat Battery sites across the UK and Europe.



Battery Charger

Lead-acid, calcium/wet, AGM, Gel and Start-Stop batteries can all be charged using the ECOBAT chargers. All chargers protect against reverse polarity and are waterproof to IP65.



Part Number	Power supply voltage	Frequency	Rated current (min-max)	Charging & test stages	Battery voltage	Charge capacity	Maintenance capacity	Memory saving	IP protection	
EBC1UK	220-240v	50-60 Hz	1A	6	12V	2Ah / 40Ah	2Ah / 100Ah	-	IP65	
EBC4UK	220-240V	56-60 Hz	1-4A	6	6V - 12V	4Ah / 80Ah	4Ah / 120Ah	-	IP65	
EBC8UK	220-240v	50-60 Hz	2-8A	9	12V	5Ah / 160Ah	5Ah / 250Ah	13.8V - 5A	IP65	
EBC16UK	220-240v	50-60 Hz	4A - 8A - 16A	9	12V - 24V	5Ah / 360Ah	5Ah / 550Ah	-	IP20	
EBC25UK	220-240v	50-60 Hz	5A - 12.5A - 25A	9	12V - 24V	5Ah / 550Ah	5Ah / 550Ah	-	IP20	

Battery Analyser

The EBT780 Battery Analyser from Ecobat Battery (UK) LTD aims to test start-stop AGM and EFB batteries. It is developed to test 12V regular flooded, AGM flat plate, AGM spiral.

Advanced conductance test and ripple voltage test provide a quick, easy and affordable solution for technicians to check battery health and detect faults of starting and charging system.

Additionally, the built-in thermal printer allows technicians to print the test data at anytime and anywhere.



Part Number	Voltage Measuring	Battery Compatibility	Battery Rating	Supported Rating Systems	Net Weight	Dimension
EBT780	6V to 32V	Flooded, Gel, Stop-Start AGM and EFB Batteries	100-2000 CCA	CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SEA, GB	0.8KG	240mm x 90mm x 45mm



WATERPROOF



GEL/WET/AGM



ANALYSIS



SHORT CIRCUIT PROTECTION

Victron MultiPlus inverter / chargers

MultiPlus-II Inverter/Charger

The MultiPlus-II is a multifunctional inverter/charger with all the features of the MultiPlus, plus an external current sensor option which extends the PowerControl and PowerAssist function to 50A resp. 100A. The MultiPlus-II is ideally suited for professional marine, yachting, vehicle and land based off-grid applications.

PowerControl and PowerAssist - Boosting the capacity of the grid or a generator

The MultiPlus-II will take account of other AC loads and use whatever is extra for battery charging. PowerAssist takes the principle of PowerControl to a further dimension. Where peak power is so often required only for a limited period, the MultiPlus-II will compensate insufficient generator, shore or grid power with power from the battery. When the load reduces, the spare power is used to recharge the battery.

Solar energy: AC power available even during a grid failure

The MultiPlus-II can be used in off grid as well as grid connected PV and other alternative energy systems. It is compatible with both solar charger controllers and grid-tie inverters.

Two AC Outputs

The main output has no break functionality. The MultiPlus-II takes over the supply to the connected loads in the event of a grid failure or when shore/generator power is disconnected. This happens so fast (less than 20 milliseconds) that computers and other electronic equipment will continue to operate without disruption.

Virtually unlimited power thanks to parallel and three phase operation

Up to 6 Multis can operate in parallel to achieve higher power output. In addition to parallel connection, three units of the same model can be configured for three phase output.

On-site system configuring, monitoring and control

Settings can be changed in a matter of minutes with VEConfigure software. Several monitoring and control options are available: Cerbo GX, Colour Control GX, Venus GX, Octo GX, CANvu GX, laptop, computer, Bluetooth (with the optional VE.Bus Smart dongle), Battery Monitor, Digital Multi Control Panel.

Remote configuring and monitoring

Install a Cerbo GX or other GX product to connect to the internet. Operational data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge. When connected to the internet, systems can be accessed remotely, and settings can be changed.



MultiPlus-II	12/3000/120-32 24/3000/70-32 48/3000/35-32	24/5000/120-50 48/5000/70-50	48/8000/110 -100	48/10000/140 -100	48/15000/ 200-100
PowerControl & PowerAssist	Yes				
Transfer switch	32 A	50 A	100 A	100 A	100 A
Maximum AC input current	32 A	50 A	100 A	100 A	100 A
Inverter					
DC Input voltage range	12V - 9.5–17 V 24V - 19–33V 48V – 38-66 V				
Output	Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0,1% (1)				
Cont. output power at 25°C (3)	3000 VA	5000 VA	8000 VA	10000 VA	15000 VA
Cont. output power at 25°C	2400 W	4000 W	6400 W	8000 W	12000 W
Cont. output power at 40°C	2200 W	3700 W	5500 W	7000 W	10000 W
Cont. output power at 65°C	1700 W	3000 W	4000 W	6000 W	7000 W
Maximum apparent feed-in power	3000 W	5000 VA	8000 VA	10000 VA	15000 VA
Peak power	5500 W	9000 W	15000 W	18000 W	27000 W
Maximum efficiency	93%/94%/95%	96%	95%	96%	95%
Zero load power	13 / 13 / 11 W	18 W	29W	38W	55W
Zero load power in AES mode	9 / 9 / 7 W	12 W	19 W	27 W	39 W
Zero load power in Search mode	3 / 3 / 2 W	2 W	3 W	4 W	6 W
Charger					
AC Input	Input Voltage Range: 187 - 265 VAC Input Frequency: 45 - 65 Hz				
Charge Voltage 'absorption' (V DC)	14.4 / 28.8 / 57.6 V				
Charge Voltage 'float' (V DC)	13.8 / 27.6 / 55.2 V				
Storage mode (V DC)	13.2 / 26.4 / 52.8 V				
Charge Current House Battery (A)	120 /70 / 35 A	120 / 70 A	110 A	140 A	200 A
Battery Temperature Sensor	Yes				
Enclosure					
Material & Colour	Steel, blue RAL 5012				
Protection category	IP22				
Battery-connection	M8 bolts		Four M8 bolts (2 plus and 2 minus connections)		
230 V AC-connection	Screw terminals 13 mm² (6 AWG)		Bolts M6	Bolts M6	Bolts M6
Weight	19 kg	30 kg	42 kg	49 kg	80 kg
Dimensions (H x W x D) mm	546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	607 x 330 x 149 565 x 320 x 149	642 x 363 x 206	677 x 363 x 206	810 x 405 x 217



GREEN2

Main features:

- Power up to 2.5 kW, from 24V up to 96V, from 17A up to 70A
- Programmable via USB type A/B port or via display
- Graphical display

Dimensions (L x W x H):
300 x 475 x 180 mm

Weight: 11 Kg

Protection Grade: IP20

Input Voltage: 120/200-240 Vac

Part Number		Voltage	Current	Battery range (C5)		
				IULa Wet 8h	IULa Wet 12h	IULa Gel PzV 10-14h
24V	GREEN2 24-50	24 V	50 A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN2 24-60	24 V	60 A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN2 24-70	24 V	70 A	390÷480 Ah	630÷770 Ah	480÷590 Ah
36V	GREEN2 36-40	36 V	40 A	230÷280 Ah	360÷440 Ah	275÷340 Ah
	GREEN2 36-45	36 V	45 A	250÷310 Ah	410÷500 Ah	310÷380 Ah
48V	GREEN2 48-30	48 V	30 A	170÷210 Ah	270÷330 Ah	210÷255 Ah
	GREEN2 48-40	48 V	40 A	230÷280 Ah	360÷440 Ah	275÷340 Ah
72V	GREEN2 72-25	72 V	25 A	140÷170 Ah	230÷280 Ah	175÷210 Ah
80V	GREEN2 80-20	80 V	20 A	110÷140 Ah	180÷220 Ah	140÷170 Ah
96V	GREEN2 96-17	96 V	17 A	100÷120 Ah	155÷190 Ah	115÷145 Ah



GREEN4

Main features:

- Power up to 2.5 kW, from 24V up to 96V, from 17A up to 70A
- Programmable via USB type A/B port or via display
- Graphical display

Dimensions (L x W x H):
333.50 x 520 x 180 mm

Weight: 13 Kg

Protection Grade: IP20

Input Voltage: 200-240Vac

Part Number		Voltage	Current	Battery range (C5)		
				IULa Wet 8h	IULa Wet 12h	IULa Gel PzV 10-14h
24V	GREEN4 24-80	24 V	80 A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN4 24-90	24 V	90 A	510÷620 Ah	810÷990 Ah	620÷760 Ah
	GREEN4 24-100	24 V	100 A	560÷690 Ah	900÷1100 Ah	690÷850 Ah
	GREEN4 24-120	24 V	120 A	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah
36V	GREEN4 36-50	36 V	50 A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN4 36-60	36 V	60 A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN4 36-70	36 V	70 A	390÷480 Ah	630÷770 Ah	480÷590 Ah
	GREEN4 36-80	36 V	80 A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN4 36-90	36 V	90 A	510÷620 Ah	810÷990 Ah	620÷760 Ah
48V	GREEN4 48-50	48 V	50 A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN4 48-60	48 V	60 A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN4 48-75	48 V	75 A	420÷520 Ah	680÷830 Ah	520÷630 Ah
72V	GREEN4 72-30	72 V	30 A	170÷210 Ah	270÷330 Ah	210÷255 Ah
	GREEN4 72-40	72 V	40 A	230÷280 Ah	360÷440 Ah	275÷340 Ah
	GREEN4 72-50	72 V	50 A	280÷340 Ah	450÷550 Ah	350÷420 Ah
80V	GREEN4 80-30	80 V	30 A	170÷210 Ah	270÷330 Ah	210÷255 Ah
	GREEN4 80-40	80 V	40 A	230÷280 Ah	360÷440 Ah	275÷340 Ah
96V	GREEN4 96-25	96 V	25 A	140÷170 Ah	230÷280 Ah	175÷210 Ah
	GREEN4 96-30	96 V	30 A	170÷210 Ah	270÷330 Ah	210÷255 Ah
	GREEN4 96-35	96 V	35 A	200÷240 Ah	315÷380 Ah	240÷300 Ah



GREEN6 Main features:

- Modular system (4 configurable modules)
- Power up to 10.5 kW, up to 200 A @ 48 V, up to 130 A @ 80 V, up to 100 A @ 96 V
- Programmable via USB type A/B port or via display
- Graphical display

Dimensions (L x W x H): 448 x 665.5 x 217.5 mm

Weight: 43.35Kg

Protection Grade: IP20

Input Voltage: 200/208-240/400/480 Vac – 50-60 Hz

Part Number		Voltage	Charging Current	Battery range (C5)		
				IULa Wet 8h	IULa Wet 12h	IULa Gel PzV 10-14h
24V	GREEN6 24-50	24 V	50A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN6 24-60	24 V	60A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN6 24-70	24 V	70A	390÷480 Ah	630÷770 Ah	480÷590 Ah
	GREEN6 24-80	24 V	80A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN6 24-100	24 V	100A	560÷690 Ah	900÷1100 Ah	690÷850 Ah
	GREEN6 24-120	24 V	120A	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah
	GREEN6 24-150	24 V	150A	840÷1030 Ah	1350÷1650 Ah	1040÷1270 Ah
36V	GREEN6 36-50	36 V	50A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN6 36-60	36 V	60A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN6 36-70	36 V	70A	390÷480 Ah	630÷770 Ah	480÷590 Ah
	GREEN6 36-80	36 V	80A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN6 36-100	36 V	100A	560÷690 Ah	900÷1100 Ah	690÷850 Ah
	GREEN6 36-120	36 V	120A	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah
	GREEN6 36-150	36 V	150A	840÷1030 Ah	1350÷1650 Ah	1040÷1270 Ah
48V	GREEN6 48-50	48 V	50A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN6 48-60	48 V	60A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN6 48-70	48 V	70A	390÷480 Ah	630÷770 Ah	480÷590 Ah
	GREEN6 48-80	48 V	80A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN6 48-100	48 V	100A	560÷690 Ah	900÷1100 Ah	690÷850 Ah
	GREEN6 48-120	48 V	120A	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah
	GREEN6 48-130	48 V	130A	730÷890 Ah	1170÷1430 Ah	900÷1100 Ah
	GREEN6 48-150	48 V	150A	840÷1030 Ah	1350÷1650 Ah	1040÷1270 Ah
72V	GREEN6 72-30	72 V	30A	170÷210 Ah	270÷330 Ah	210÷255 Ah
	GREEN6 72-40	72 V	40A	230÷280 Ah	360÷440 Ah	275÷340 Ah
	GREEN6 72-50	72 V	50A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN6 72-60	72 V	60A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN6 72-80	72 V	80A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN6 72-100	72 V	100A	560÷690 Ah	900÷1100 Ah	690÷850 Ah
80V	GREEN6 80-30	80 V	30A	170÷210 Ah	270÷330 Ah	210÷255 Ah
	GREEN6 80-40	80 V	40A	230÷280 Ah	360÷440 Ah	275÷340 Ah
	GREEN6 80-50	80 V	50A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN6 80-60	80 V	60A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN6 80-80	80 V	80A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN6 80-100	80 V	100A	560÷690 Ah	900÷1100 Ah	690÷850 Ah
96V	GREEN6 96-20	96 V	20A	110÷140 Ah	180÷220 Ah	140÷170 Ah
	GREEN6 96-25	96 V	25A	140÷170 Ah	230÷280 Ah	170÷210 Ah
	GREEN6 96-30	96 V	30A	170÷210 Ah	270÷330 Ah	210÷250 Ah
	GREEN6 96-40	96 V	40A	230÷280 Ah	360÷440 Ah	280÷340 Ah
	GREEN6 96-50	96 V	50A	280÷340 Ah	450÷550 Ah	350÷420 Ah
	GREEN6 96-60	96 V	60A	340÷410 Ah	540÷660 Ah	420÷510 Ah
	GREEN6 96-70	96 V	70A	390÷480 Ah	630÷770 Ah	480÷590 Ah
	GREEN6 96-75	96 V	75A	420÷520 Ah	680÷830 Ah	520÷630 Ah



GREEN8 Main features:

- Modular system (4 configurable modules)
- Power up to 10.5 kW, up to 200 A @ 48 V, up to 130 A @ 80 V, up to 100 A @ 96 V
- Programmable via USB type A/B port or via display
- Graphical display

Dimensions (L x W x H): 448 x 665.5 x 217.5 mm

Weight: 43.35Kg

Protection Grade: IP20

Input Voltage: 200/208-240/400/480 Vac – 50-60 Hz

Part Number		Voltage	Charging Current	Battery range (C5)		
				IULa Wet 8h	IULa Wet 12h	IULa Gel PzV 10-14h
24V	GREEN8 24-160	24 V	160 A	900÷1100 Ah	1440÷1760 Ah	1110÷1350 Ah
	GREEN8 24-180	24 V	180 A	1010÷1240 Ah	1620÷1980 Ah	1250÷1520 Ah
	GREEN8 24-200	24 V	200 A	1130÷1380 Ah	1800÷2200 Ah	1380÷1690 Ah
36V	GREEN8 36-160	36 V	160 A	900÷1100 Ah	1440÷1760 Ah	1110÷1350 Ah
	GREEN8 36-180	36 V	180 A	1010÷1240 Ah	1620÷1980 Ah	1250÷1520 Ah
	GREEN8 36-200	36 V	200 A	1130÷1380 Ah	1800÷2200 Ah	1380÷1690 Ah
48V	GREEN8 48-160	48 V	160 A	900÷1100 Ah	1440÷1760 Ah	1110÷1350 Ah
	GREEN8 48-180	48 V	180 A	1010÷1240 Ah	1620÷1980 Ah	1250÷1520 Ah
	GREEN8 48-200	48 V	200 A	1130÷1380 Ah	1800÷2200 Ah	1380÷1690 Ah
72V	GREEN8 72-110	72 V	110 A	620÷760 Ah	990÷1210 Ah	760÷930 Ah
	GREEN8 72-120	72 V	120 A	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah
	GREEN8 72-130	72 V	130 A	730÷890 Ah	1170÷1430 Ah	900÷1100 Ah
80V	GREEN8 80-110	80 V	110 A	620÷760 Ah	990÷1210 Ah	760÷930 Ah
	GREEN8 80-120	80 V	120 A	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah
	GREEN8 80-130	80 V	130 A	730÷890 Ah	1170÷1430 Ah	900÷1100 Ah
96V	GREEN8 96-80	96 V	80 A	450÷550 Ah	720÷880 Ah	550÷680 Ah
	GREEN8 96-100	96 V	100 A	560÷690 Ah	900÷1100 Ah	690÷850 Ah

Popular Plus
Single Phase



POPULAR PLUS - Single-phase

POPULARPLUS Single Phase					
Volt	A	Profile	Mains Voltage	BOX	Ah range
24	80	Wa curve	1 phase 240VAC	S	max 480
24	100	Wa curve	1 phase 240VAC	S	max 600
24	120	Wa curve	1 phase 240VAC	S	max 720
24	140	Wa curve	1 phase 240VAC	S	max 840
24	160	Wa curve	1 phase 240VAC	S	max 960
36	60	Wa curve	1 phase 240VAC	S	max 360
36	80	Wa curve	1 phase 240VAC	S	max 480
36	100	Wa curve	1 phase 240VAC	S	max 600
36	120	Wa curve	1 phase 240VAC	S	max 720
48	60	Wa curve	1 phase 240VAC	S	max 360
48	80	Wa curve	1 phase 240VAC	S	max 480
48	100	Wa curve	1 phase 240VAC	S	max 600
48	120	Wa curve	1 phase 240VAC	N	max 720
48	140	Wa curve	1 phase 240VAC	N	max 840
72	60	Wa curve	1 phase 240VAC	S	max 360
72	80	Wa curve	1 phase 240VAC	S	max 480
72	100	Wa curve	1 phase 240VAC	N	max 600
72	120	Wa curve	1 phase 240VAC	N	max 720
80	60	Wa curve	1 phase 240VAC	S	max 360
80	80	Wa curve	1 phase 240VAC	S	max 480
80	100	Wa curve	1 phase 240VAC	N	max 600
80	120	Wa curve	1 phase 240VAC	N	max 720

Box Dimensions (mm)

- "S" 500 (L) x 400 (W) x 800 (H)
- "N" 500 (L) x 400 (W) x 1000 (H)
- "L" 600 (L) x 480 (W) x 1100 (H)

Features

- Power supply: 240V AC, single-phase (adjustable $\pm$ 5%)
- Standard colour: Black 9001 - white 9010L
- Frequency: 50/60 Hz
- Equipped with mains and battery cables

POPULAR PLUS - Three-phase

POPULARPLUS Three Phase					
Volt	A	Profile	Mains Voltage	BOX	Ah range
24	60	Wa curve	3 phase 420VAC	S	max 360
24	80	Wa curve	3 phase 420VAC	S	max 480
24	100	Wa curve	3 phase 420VAC	S	max 600
24	120	Wa curve	3 phase 420VAC	S	max 720
24	140	Wa curve	3 phase 420VAC	S	max 840
24	160	Wa curve	3 phase 420VAC	N	max 960
36	60	Wa curve	3 phase 420VAC	S	max 360
36	80	Wa curve	3 phase 420VAC	S	max 480
36	100	Wa curve	3 phase 420VAC	S	max 600
36	120	Wa curve	3 phase 420VAC	S	max 720
36	140	Wa curve	3 phase 420VAC	S	max 840
36	160	Wa curve	3 phase 420VAC	N	max 960
48	60	Wa curve	3 phase 420VAC	S	max 360
48	80	Wa curve	3 phase 420VAC	S	max 480
48	100	Wa curve	3 phase 420VAC	S	max 600
48	120	Wa curve	3 phase 420VAC	N	max 720
48	140	Wa curve	3 phase 420VAC	N	max 840
48	160	Wa curve	3 phase 420VAC	N	max 960
72	60	Wa curve	3 phase 420VAC	S	max 360
72	80	Wa curve	3 phase 420VAC	S	max 480
72	100	Wa curve	3 phase 420VAC	N	max 600
72	120	Wa curve	3 phase 420VAC	N	max 720
80	60	Wa curve	3 phase 420VAC	S	max 360
80	80	Wa curve	3 phase 420VAC	N	max 480
80	100	Wa curve	3 phase 420VAC	N	max 600
80	120	Wa curve	3 phase 420VAC	N	max 720
80	140	Wa curve	3 phase 420VAC	N	max 840
80	160	Wa curve	3 phase 420VAC	N	max 960

Box Dimensions (mm)

- "S" 500 (L) x 400 (W) x 800 (H)
- "N" 500 (L) x 400 (W) x 1000 (H)
- "L" 600 (L) x 480 (W) x 1100 (H)

Features

- Power supply: 420V AC, single-phase (adjustable $\pm$ 5%)
- Standard colour: Black 9001 - white 9010L
- Frequency: 50/60 Hz
- Equipped with mains and battery cables

Power Plus
Three Phase



Power Plus
Single Phase



POWER PLUS - Single-phase

Model	Ah Battery 10 ÷ 11 h	Mains voltage	Box
12V / 15A	90 ÷ 105	240	L
12V / 20A	110 ÷ 140	240	L
12V / 25A	150 ÷ 175	240	L
12V / 30A	180 ÷ 210	240	L
12V / 40A	220 ÷ 280	240	L
12V / 50A	300 ÷ 340	240	L
12V / 60A	350 ÷ 400	240	XL
24V / 15A	90 ÷ 105	240	L
24V / 20A	110 ÷ 140	240	L
24V / 25A	150 ÷ 175	240	L
24V / 30A	180 ÷ 210	240	L
24V / 40A	220 ÷ 280	240	L
24V / 50A	300 ÷ 340	240	XL
24V / 60A	350 ÷ 400	240	XL
24V / 70A	410 ÷ 480	240	XL
36V / 15A	90 ÷ 105	240	L
36V / 20A	110 ÷ 140	240	L
36V / 25A	150 ÷ 175	240	L
36V / 30A	180 ÷ 210	240	XL
36V / 40A	220 ÷ 280	240	XL
36V / 50A	300 - 340	240	XL
48V / 20A	110 ÷ 140	240	XL
48V / 30A	180 ÷ 210	240	XL

Box Dimensions (mm)

- “L” 425 (L) x 270 (W) x 280 (H)
- “XL” 500 (L) x 300 (W) x 300 (H)

Features

- Power supply: 240V AC, single-phase (adjustable $\pm 5\%$)
- Standard colour: BLACK 9005- white 9010L
- Preset holes for wall mounting
- Equipped with mains and battery cables

POWER PLUS - Three-phase

Model	Battery Ah	Mains voltage	Box
24V / 60A	max 360	240/420	S
24V / 70A	max 420	240/420	S
24V / 80A	max 480	240/420	S
24V / 90A	max 540	240/420	S
24V / 100A	max 600	240/420	S
24V / 110A	max 660	240/420	S
24V / 120A	max 720	240/420	S
24V / 130A	max 780	240/420	S
24V / 140A	max 840	240/420	S
24V / 160A	max 960	240/420	N
36V / 60A	max 360	240/420	S
36V / 70A	max 420	240/420	S
36V / 80A	max 480	240/420	S
36V / 90A	max 540	240/420	S
36V / 100A	max 600	240/420	S
36V / 110A	max 660	240/420	S
36V / 120A	max 720	240/420	S
36V / 130A	max 780	240/420	S
36V / 140A	max 840	240/420	S
36V / 160A	max 960	240/420	N
48V / 50A	max 300	240/420	S
48V / 60A	max 360	240/420	S
48V / 70A	max 420	240/420	S
48V / 80A	max 480	240/420	S
48V / 90A	max 540	240/420	S
48V / 100A	max 600	240/420	S
48V / 110A	max 660	240/420	S
48V / 120A	max 720	240/420	N
48V / 130A	max 780	240/420	N
48V / 140A	max 840	240/420	N
48V / 160A	max 930	240/420	N
72V / 60A	max 360	240/420	S
72V / 70A	max 420	240/420	S
72V / 80A	max 480	240/420	S
72V / 90A	max 540	240/420	S
72V / 100A	max 600	240/420	N
72V / 110A	max 660	240/420	N
72V / 120A	max 720	240/420	N
80V / 40A	max 240	240/420	S
80V / 50A	max 300	240/420	S
80V / 60A	max 360	240/420	S
80V / 70A	max 420	240/420	S
80V / 80A	max 480	240/420	N
80V / 90A	max 540	240/420	N
80V / 100A	max 600	240/420	N
80V / 110A	max 660	240/420	N
80V / 120A	max 720	240/420	N

CBHF2(XP)

Features:

- Single-phase battery chargers
- High frequency system with advanced technology
- Charging process controlled by microprocessor
- Thermal protection
- High brightness digital display
- Voltage: 12V, 24V, 36V, 48V
- Programmable for charging curve, charging current and battery voltage via dip switch
- Suitable for Lead-Acid, Sealed, Gel Traction and Lithium batteries
- Remote LED option



Battery Voltage	Battery Range (5h)		Battery Range (20h)	Charging Current	Model
	8-9 hours charging time	10-12 hours charging time	10-12 hours charging time		
12V	180÷220 Ah	250÷320 Ah	305÷390 Ah	35A	12-35 (XP)
12V	220÷260 Ah	295÷360 Ah	360÷440 Ah	40A	12-40 (XP)
24V	180÷220 Ah	250÷320 Ah	305÷390 Ah	35A	24-35 (XP)
24V	220÷260 Ah	295÷360 Ah	360÷440 Ah	40A	24-40 (XP)
36V	145÷180 Ah	200÷280 Ah	245÷350 Ah	30A	36-30 (XP)
48V	105÷140 Ah	150÷220 Ah	165÷265 Ah	22A	48-22 (XP)

CBHF2(XP) - Main features:

- Power from 180W up to 1050W
- Current from 15A to 40A
- Active PFC
- Charging cycles information through USB (optional)

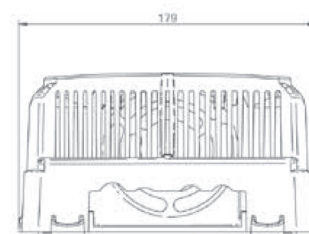
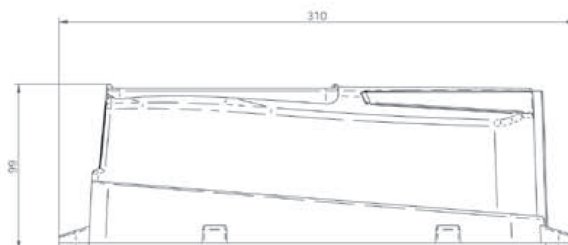
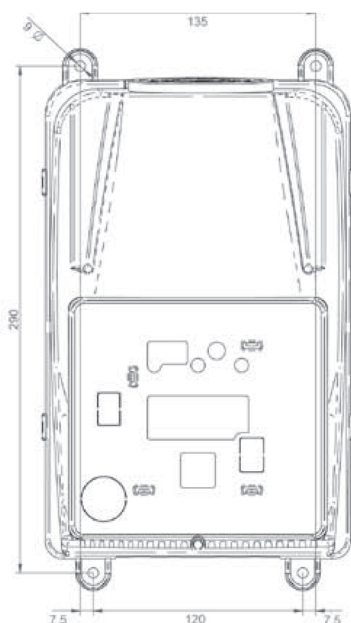
Dimensions (L x W x H):

180 x 310 x 100 mm

Weight: 3.5 Kg

Protection Grade: Ip30

Input Voltage: CBHF2-XP 36V/48V:
208 ÷ 240 Vac – 50-60 Hz



CBHF2-HK

CBHF2-HK - Main features:

- STOP button on front panel
- Hard metal case
- ON-BOARD application
- Extra Power version available (XP model)

Dimensions (L x W x H):
270 x 225 x 97 mm

Weight: 4 Kg

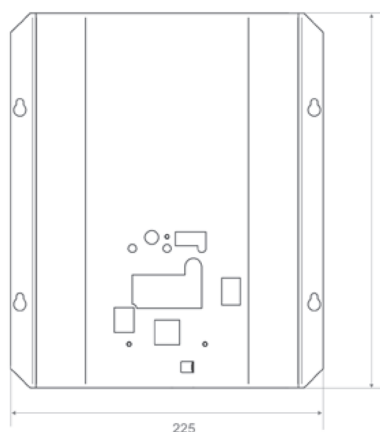
Protection Grade: Ip30

Input Voltage: 100 ÷ 240
Vac – 50-60 Hz

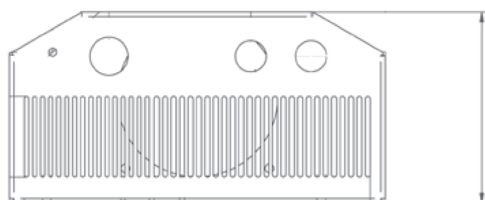
* XP model 36V/48V: 208 ÷ 240
Vac – 50-60 Hz



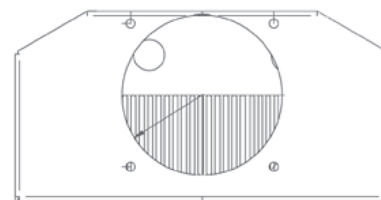
Battery Voltage	Battery Range (5h)		Battery Range (20h)	Charging Current	Model
	8-9 hours charging time	10-12 hours charging time	10-12 hours charging time		
12V	80÷110 Ah	100÷150 Ah	130÷185 Ah	15A	12-15
	95÷120 Ah	120÷195 Ah	150÷240 Ah	20A	12-20
	120÷160 Ah	180÷260 Ah	220÷315 Ah	25A	12-25
	145÷180 Ah	200÷280 Ah	245÷350 Ah	30A	12-30
	180÷220 Ah	250÷320 Ah	305÷390 Ah	35A	12-35 (XP)
	220÷260 Ah	295÷360 Ah	360÷440 Ah	40A	12-40 (XP)
24V	80÷110 Ah	100÷150 Ah	130÷185 Ah	15A	24-15
	95÷120 Ah	120÷195 Ah	150÷240 Ah	20A	24-20
	120÷160 Ah	180÷260 Ah	220÷315 Ah	25A	24-25
	145÷180 Ah	200÷280 Ah	245÷350 Ah	30A	24-30
	180÷220 Ah	250÷320 Ah	305÷390 Ah	35A	24-35 (XP)
	220÷260 Ah	295÷360 Ah	360÷440 Ah	40A	24-40 (XP)
36V	80÷110 Ah	100÷150 Ah	130÷185 Ah	15A	36-15
	95÷120 Ah	120÷195 Ah	150÷240 Ah	20A	36-20
	120÷160 Ah	180÷260 Ah	220÷315 Ah	25A	36-25
	145÷180 Ah	200÷280 Ah	245÷350 Ah	30A	36-30 (XP)
48V	80÷110 Ah	100÷150 Ah	130÷185 Ah	15A	48-15
	95÷120 Ah	120÷195 Ah	150÷240 Ah	20A	48-20
	105÷140 Ah	150÷220 Ah	165÷265 Ah	22A	48-22 (XP)



270



97



SPE SMART battery chargers

On-Board and Stand-Alone Industrial Electronic Battery Chargers

SPE Elettronica Industriale manufactures Smart on-board and stand-alone industrial electronic battery chargers for both Traditional and High Frequency Lead-Acid and Gel traction batteries, offering complete programmability of the charging process

Applications

- Aerial Working Platforms
- Electric Vehicles
- Cleaning Machines
- Materials Handling Industry



CBHF1-SM - Main features:

- Compact & lightweight
- Power from 48W up to 290W
- Current from 4A to 12A

Dimensions (L x W x H):
134.5 x 241 x 80 mm

Weight: 1.80 Kg

Protection Grade: IP30

Input Voltage: 208 ÷ 240 Vac – 50-60 Hz

Part Number		Voltage	Current	Battery Range	
				5 Hr	20 Hr
12V	CBHF1-SM 12-4	12	4 A	20÷40 Ah	30÷50 Ah
	CBHF1-SM 12-8	12	8 A	40÷80 Ah	60÷105 Ah
	CBHF1-SM 12-10	12	10 A	60÷100 Ah	70÷130 Ah
	CBHF1-SM 12-12	12	12 A	90÷120 Ah	120÷157 Ah
24V	CBHF1-SM 24-4	24	4 A	20÷40 Ah	30÷50 Ah
	CBHF1-SM 24-8	24	8 A	40÷80 Ah	60÷105 Ah
	CBHF1-SM 24-10	24	10 A	60÷100 Ah	70÷130 Ah
	CBHF1-SM 24-12	24	12 A	90÷120 Ah	120÷157 Ah



CBHF1-V2 - Main features:

- Compact & lightweight
- Power from 96W up to 340W
- Current from 8A to 14A

Dimensions (L x W x H):
154 x 268 x 100 mm

Weight: 2.0 Kg

Protection Grade: IP30

Input Voltage: 208 ÷ 240 Vac – 50-60 Hz

Part Number		Voltage	Current	Battery Range	
				5 Hr	20 Hr
12V	CBHF1-V2 12-8	12	8 A	40÷80 Ah	60÷105 Ah
	CBHF1-V2 12-10	12	10 A	60÷100 Ah	70÷130 Ah
	CBHF1-V2 12-12	12	12 A	90÷120 Ah	120÷160 Ah
	CBHF1-V2 12-14	12	14A	90÷130 Ah	120÷170 Ah
24V	CBHF1-V2 24-8	24	8 A	40÷80 Ah	60÷105 Ah
	CBHF1-V2 24-10	24	10 A	60÷100 Ah	70÷130 Ah
	CBHF1-V2 24-12	24	12 A	90÷120 Ah	120÷160 Ah
	CBHF1-V2 24-14	24	14A	90÷130 Ah	120÷170 Ah



CBHF2 - Main features:

- Power from 180W up to 1050W
- Current from 15A to 40A
- Active PFC
- Charging cycles information through USB (optional)
- Exclusive to Ecobat
- Programmable for Wet, GEL, AGM and LFP batteries.

Dimensions (L x W x H):
180 x 310 x 100 mm

Weight: 3.5 Kg

Protection Grade: IP30

Input Voltage: Universal 100 ÷ 240 Vac – 50-60 Hz - 240 Vac only available

Input Voltage: 110-240Vac 50-60Hz
CBHF2-LCD 24V 30A 110-240Vac, w/plug EU

Part Number		Voltage	Current	Battery range (5h)		Battery range (20h)
				8-9h charging time	10-12h charging time	10-12h charging time
12V	CBHF2 12-15	12 V	15 A	80÷100 Ah	100÷150 Ah	130÷185 Ah
	CBHF2 12-20	12 V	20 A	95÷120 Ah	120÷195 Ah	150÷240 Ah
	CBHF2 12-25	12 V	25 A	120÷160 Ah	180÷260 Ah	220÷315 Ah
	CBHF2 12-30	12 V	30 A	145÷180 Ah	200÷280 Ah	245÷350 Ah
24V	CBHF2 24-15	24 V	15 A	80÷100 Ah	100÷150 Ah	130÷185 Ah
	CBHF2 24-20	24 V	20 A	95÷120 Ah	120÷195 Ah	150÷240 Ah
	CBHF2 24-25	24 V	25 A	120÷160 Ah	180÷260 Ah	220÷315 Ah
	CBHF2 24-30	24 V	30 A	145÷180 Ah	200÷280 Ah	245÷350 Ah
36V	CBHF2 36-15	36 V	15 A	80÷110 Ah	100÷150 Ah	130÷185 Ah
	CBHF2 36-20	36 V	20 A	95÷120 Ah	120÷195 Ah	150÷240 Ah
	CBHF2 36-25	36 V	25 A	120÷160 Ah	180÷260 Ah	220÷315 Ah
48V	CBHF2 48-15	48 V	15 A	80÷110 Ah	100÷150 Ah	130÷185 Ah
	CBHF2 48-20	48 V	20 A	95÷120 Ah	120÷195 Ah	150÷240 Ah

12V Series - All Purpose Lithium Ion Battery

The RT 12V Series battery is an all-purpose lithium-ion battery module developed with a cutting-edge LFP (Lithium Iron Phosphate) cell, embedded BMS (Battery Management System), and robust mechanical design that provides inherent safety, extremely high reliability, and zero maintenance.

The RT 12V Series battery's built-in heating film technology performs at temperatures as low as -40°C. The module weight less than half of the same capacity lead-acid battery, providing superior performance in cold weather while saving weight.



PYLONTECH

Key Features

- **Ultra-Safety**
The battery management system (BMS) provides comprehensive protection to the battery and manages the charging/discharging process wisely.
- **Auto-Balance**
Connects multiple batteries in parallel safely without internal state non-uniformity issues.
- **Uncompromising Quality**
State-of-the-art battery cells ensure a lifespan of more than 6000 cycles, 100A continuous discharge current, and a wide range of operation temperature.
- **Communication**
CAN, RS485, Bluetooth, Dry Contact enable data transmission to meet the needs of different usage scenarios.



All Purpose Lithium Ion Battery		RT12100G31
Electrical		
Nominal Voltage(V)		12.8
Nominal Capacity(Ah)		100
Charge Voltage(VDC)		14V-14.4
Nominal Operation Current(A)		50
Max. continuous operation current(A)		100
Peak Current(A)		200@30sec
Single String Quantity(pcs)		≤16 pcs
Structure		
Dimension (mm) L x W x H		325 x 173.5 x 226
Weight(Kg)		13±0.2
IP rating		IP67
Terminal		M8 bolt
Working Environment		
Charge working temperature (°C)		0~60
Discharge working temperature (°C)		-20~60
Communication		
RS485		115200bps
CAN		500Kbps
Bluetooth		BLE5.0
Dry contactor		2×inputs & 2×outputs

Residential - Battery Energy Storage Systems (BESS)

Save costs, save the planet, with our battery storage. So future generations can enjoy a safe and clean environment.

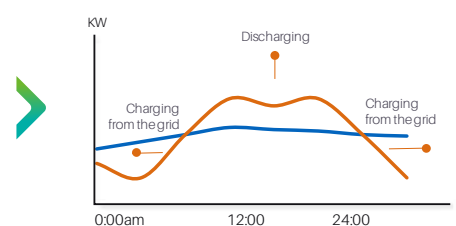
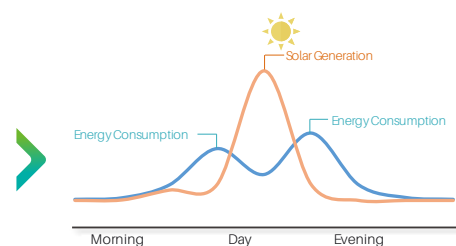
Self-Consumption Optimisation: High energy demand in the morning and evening but solar generation is most sufficient during the Mid-Day. Battery Storage system balance the feeding and demands. Realise your grid independence.

Benefits from Peak Shaving:

Store the power during low-peak and use the energy at peak-time. Save the money

Key Features

- Safety
Multi-protection from self developed BMS
- Optimal Electricity Cost
Long cycle life and superior performance
- Compact Size & Easy installation
Module design help for quick installation
- Easy to Scale Up
Be workable to be parallel based on 48V
- Compatibility
Compatible with Tier 1 inverter brands



	US2000C	US3000C	US5000
Nominal Voltage (Vdc)	48		
Nominal Capacity(Wh)	2400	3552	4800
Usable Capacity(Wh)	2280	3374	4560
Dimension(mm)	442 x 410 x 89	442 x 420 x 132	442 x 420 x 161
Weight(kg)	24	32	39.7
Charge/Discharge Current(A)	25 (Recommend) (Max) (Peak)	37 (Recommend) (Max) (Peak)	75 (Recommend) (Max) (Peak)
Communication Port	RS485, CAN		
Single string quantity(pcs)	16		
Working Temperature/ °C	0~50		
Shelf Temperature/ °C	-20~60		
Cycle Life	>6000, 25°C		
Authentication Level	IEC62619/CE UN38.3	VDE2510-50 IEC62619/UL1973 UL9540A/CE/UN38.3	IEC62619/UL1973 /UL9540A/CE /UN38.3

Certification: SAE J930, SAE J1455, UL1973, IEC62619,FCC,CE, Bluetooth SIG, UN38.3

Utility ESS

Powercube M series products with its modular design concept, enables the highest flexibility both for rack mounted and container based constructions, giving the flexibilities for customer to deploy the system nearly in any nodes in the grid, supporting the services such as emergency power, new energy stabiliser, energy shifting, load shaving, and grid stabilizer.



PYLONTECH

Applications:

- Hospital
- Data Centre
- Business Building
- Grid Support
- Load
- Factory
- Gas Stations
- Power Stations



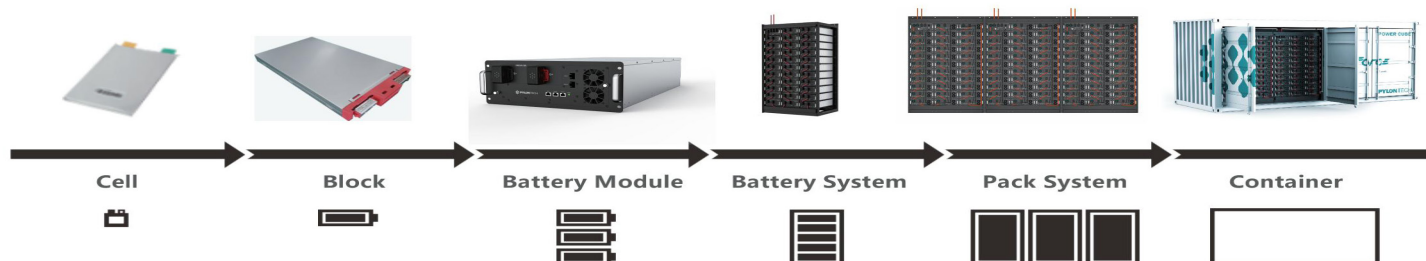
	Powercube-M2A-180 (729.6V148Ah) 100~1000V	Powercube-M3A-100 (729.6V148Ah) 100~1400V	Powercube- M3A-180 (1113.6V148Ah) 100~1400V
Battery Module	HM2A180	HM3A100	HM3A180
Battery System Capacity (kWh)	107.98	107.98	164.81
Battery system Voltage (V)	729.6	729.6	1113.6
Battery System Voltage Range (V)	615.6~820.8	615.6~820.8	939.6~1252.8
Efficiency (@0.5C-rate)	96%	96%	96%
Depth of Discharge	90%	90%	90%
Dimension (mm) L x W x H	803 x 845 x 2130	803 x 845 x 2130	1185 x 845 x 2130
Weight (kg)	1228	1228	1798
Design Life	15+Years	15+Years	15+Years
Operation Temperature (°C)	10~40	10~40	10~40
Humidity	5%~95%	5%~95%	5%~95%
Altitude	<2000	<2000	<2000
Battery Module Qty. (Optional)	1~19 pcs	1~19 pcs	1~19 pcs
Authentication level	IEC62619/CE/UN38.3	UL1973/IEC62619/CE /UN38.3/UL9540A	IEC62619/VDE2510-50 /CE/UN38.3

Container ESS

Pylontech ESS container solution includes lighting, access control, fire protection, and air conditioning. 20h can hold 1000kwh battery, inverter, combiner box or PCS, 40hq can hold 1800kwh~2000kwh battery and other equipment. Can be placed indoors or outdoors, with heat insulation function.

Supporting Services:

- Emergency power
- Energy shifting
- Grid stabiliser
- New energy stabiliser
- Load shaving
- Frequency responding



	20ft High Voltage System Container	40ft High Voltage System Container
Container System Type	Powercube-20H-M1	Powercube-40H -M1
System Charge/Discharge Rate	0.5C	0.5C
System Voltage Range(V)	736 (690~828)	736 (690~828)
System Capacity(kWh)	1296	2592
Container System Type	Powercube-20H-M2	Powercube-40H -M2
System Charge/Discharge Rate	0.5C 0.5C	0.5C 0.5C
System Voltage Range(V)	806(680~907) 1228(1036~1382)	806(680~907) 1228(1036~1382)
System Capacity(kWh)	1432 1454	2983 3273
Container System Type	Powercube-20H-M3	Powercube-40H -M3
System Charge/Discharge Rate	0.5~1C 0.5~1C	0.5~1C 0.5~1C
System Voltage Range(V)	806(680~907) 1228(1036~1382)	806(680~907) 1228(1036~1382)
System Capacity(kWh)	1194 1091	1194 1091
Dimension (L*W*H, M)	6.058 x 2.438 x 2.896	12.192 x 2.438 x 2.896
Ambient Temperature (°C)	-20~50	
Communication	CANBUS/Modbus TCP/IP	

Pelio

The well-designed Pelio is specifically developed for modern residential properties, aiming to provide users with more sufficient and reliable



Key Advantages

- Smaller Footprint - Higher energy density benefit from latest LFP technology
- Expandable - Modular design Maximum 102.4kWh (20 Modules)
- High Power Efficiency - Continuous power 5.12kw, Peak Power 10.24kw @ 15s
- Monitor 24/7 - Real-time monitoring of battery charging and discharging, online system updates and maintenance



		1 (W*/G*)	2 (W*/G*)	3 (W*/G*)	4 (G*)
Nominal Voltage (VDC)		51.2			
Battery Module Capacity (kWh)		51.2			
Battery System Capacity (kWh)		5.12	10.24	15.36	20.48
Dimension (W*D*H mm)		578 x 165 x 395	578 x 165 x 790	578 x 165 x 1185	578 x 165 x 1580
Weight (kg)		45	90	135	180
Depth of Discharge		95%			
Charge/ Discharge (A)	Normal	100			
	Max	101-120 @15min			
	Peak	121-200 @15s			
Communication port		RS485/CAN			
IP rating		IP65			
Single String Quantity (pcs)		20 (MAX.4 in 1 group)			
Working Temperature/ (°C)		0°C - 50°C Charge, -10°C - 50°C Discharge			
Storage Temperature/ (°C)		0°C - 45°C (6 months), -20°C - 45°C (3 months)			
Humidity (RH)		5%-95% No Condensation			
Altitude (m)		<4,000			
Design life (@25)		15+ Years			
Cycle life (@25)		>8,000			
Certification		IEC61000-6-2/IEC61000-6-3/IEC62040/IEC62477-1/IEC62619/IEC63056 U1642/UL1973/UL9540A/UN38.8/VDE2510-50			

W*: Wall Mounted Installation
G*: Ground Mounted Installation



Force

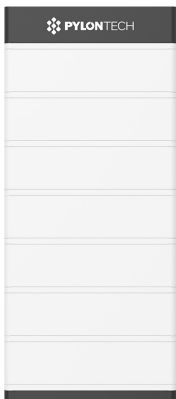
The Pylontech Force range are modular LFP battery systems designed for both Residential and Commercial Energy Storage applications.

Key Advantages

- **Modularity** - The Force range are stackable modules making it easy to expand the storage capacity when needed. Each module carries around 3.5kWh.
- **Voltage** - The range includes both low and high voltage systems options.
- **Durability** - Batteries are designed to operate in a wide temperature range and the IP65 rating ensures that this range is reliable.
- **Cycle Life** - The long cycle life may exceed 6000 cycles with some models.

Residential BESS Low Voltage

Force L1

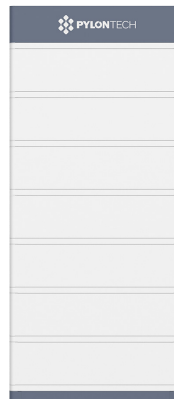


Force L2

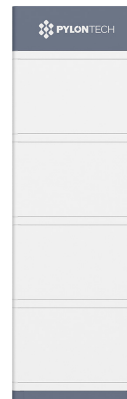


Residential BESS High Voltage

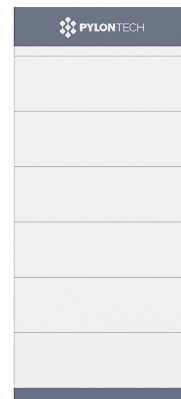
Force H1



Force H2

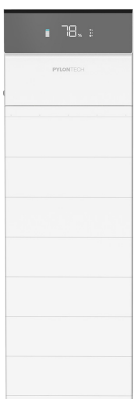


Force H3



Residential ESS

Force H3X



Force H3X
AC-Coupled



LFP Technology

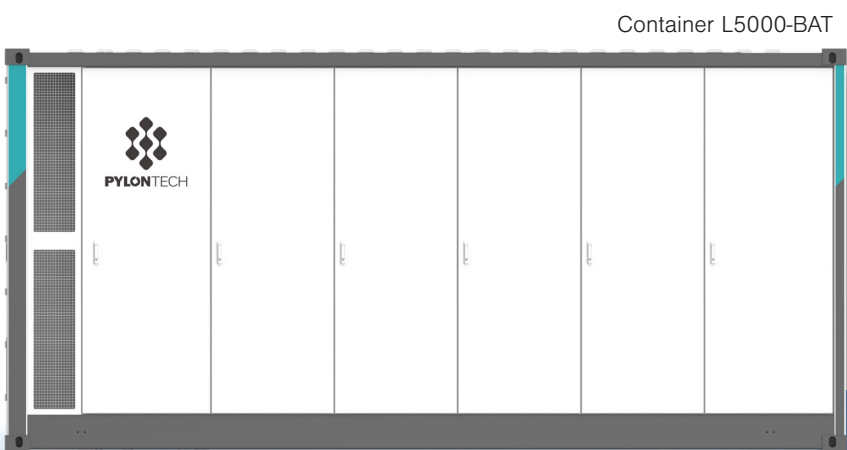
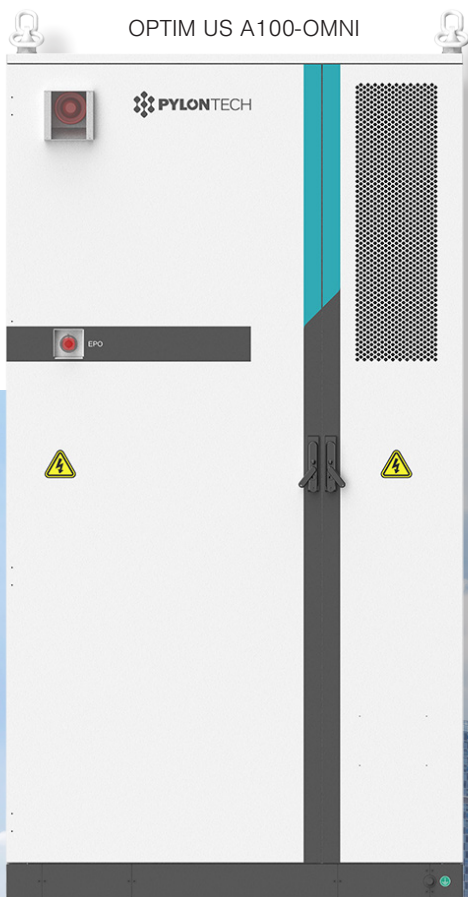
Pylontechs commercial and industrial energy storage system delivers scalable and robust energy management solutions. Designed for high-demand environments, it enhances energy efficiency, reduces operational costs, and supports grid stability, empowering your business



Why Pylontech Utility, Commercial and Industrial ESS?

- Reliability and Safety
- Versatility
- Efficiency and Performance
- Scalability
- Cost Savings
- Environmental Benefits

Cabinet Solution		Container Solution	
Air Cooling	Liquid Cooling	Air Cooling	Liquid Cooling
A100-HY	L260-Omni	A1000-Omni	L2200-Omni
A100-Omni	L417-BAT	A2000-Omni	L3300-BAT
A300-HY		A2900-BAT	L5000-BAT
A329-BAT			



STAR H-232

- **All-in-One Cabinet**
- **CATL LFP 280Ah**
- **100kW | 232kWh**

Flexible Application

- All-in-One Design
- Plug-and-Play
- Zero-Gap Parallel Connection

Accurate Liquid Cooling

- Temperature Difference ≤ 3
- Extend Battery Lifespan

Ultimate Safety

- Quadruple Fire Protection
- Precision Fire Alarm Position
- Real Time Insulation Monitoring

Intelligent Power Management

- EMS Ensures System Safety
- Cloud Platform Monitors Status



Battery specifications	
Battery Type	LFP
Battery Model	280Ah
Energy Capacity	232kWh
Voltage Range	728 - 936VDC
P-rate	0.5P
Compliance	UN 38.3, UN 3480, UL 1973, UL 9540A, UL9540, IEC 62619, IEC 61000-6-2/-4, IEC 62477-1, IEC 60356, IEC 60730-1

PCS specifications	
Rated AC Power	100kW
Rated Grid Voltage	400/480Vac
Total Harmonic Distortion	<3%
Rated Grid Frequency	50/60Hz
Peak Efficiency	98%
Power Factor	-1 to 1, continuously adjustable
Compliance	EN 50549, G99, VDE AR-N 4105, NTS Spain, IEC 62477, IEC 61000-6-2, IEC 61000-6-4, UL 1741, IEEE1547-2018, UL1741 SB

General specifications	
Cooling Method	Liquid Cooling
Operating Temperature Range	-25 to 55 °C (>45°C derating)
Relative Humidity Range	0 - 95% (No Condensation)
Max. Working Altitude	4000m (>2000m derating)
Fire Safety Equipment	Aerosol, Smoke detector, Heat detector, Flammable gas detector (optional), Deflagration vent (optional), Dry pipe (optional)
Battery Compartment Ingress Protection	IP65
System Dimensions (W×D×H)	≈1500×1300×2000 mm
Weight	≈3.5T
Isolation Transformer	Off-Grid Require

CNTE Industrial energy storage (ESS)

STAR Q

- 50kW/109kWh
- PV + diesel generator
- On/Off-grid operation

Seamless on/off-grid, one cabinet forms a micro-grid

- Pure off-grid, power 10 families a day
- Adopt the hybrid inverter
- 0.02s On/Off-Grid switch

CATL 306Ah LFP battery cell | service life ≥ 15years

Patented self-cooling rack, lifecycle maintenance-free

Higher efficiency, less than 70% fuel costs



Battery specifications	
Battery Type	LFP
Battery Model	306Ah
Energy Capacity	109kWh
Cycle Life (@25°C 0.5P)	≥10000
P-rate	≤0.5P
Battery Compartment Ingress Protection	IP67

Communication (On/Off-grid)	
Rated output power	50kW
Rated Input Voltage (3/N/PE)	380/400Vac
Rated Frequency	50/60Hz
THDi	< 3%
THDu	< 3%

PV input	
MPPT Voltage Range	150 to 850Vdc
Maximun Input Power of PV	96kW
MPPT channels/Strings per MPPT channel	4/2
Max Input Current	40/40/40/40A

General specifications	
On/Off-Grid Switching Time	< 20ms
Cooling Method	Air Cooling
Operating Temperature Range	-25 to 55°C
Relative Humidity	0 to 95% (Non-condensation)
Operating Altitude	≤4000m (> 2000m derating)
Ingress Protection	IP54
Dimension (W×D×H)	1272 × 1356.8 × 2070 mm
Weight	1.8T
Compliance	EN 50549-1, EN50549-10, VDE-AR-N 4105, NRS 097-2-1, IEC 61000, IEC 62477, IEC 62619, IEC62109, UN38.3

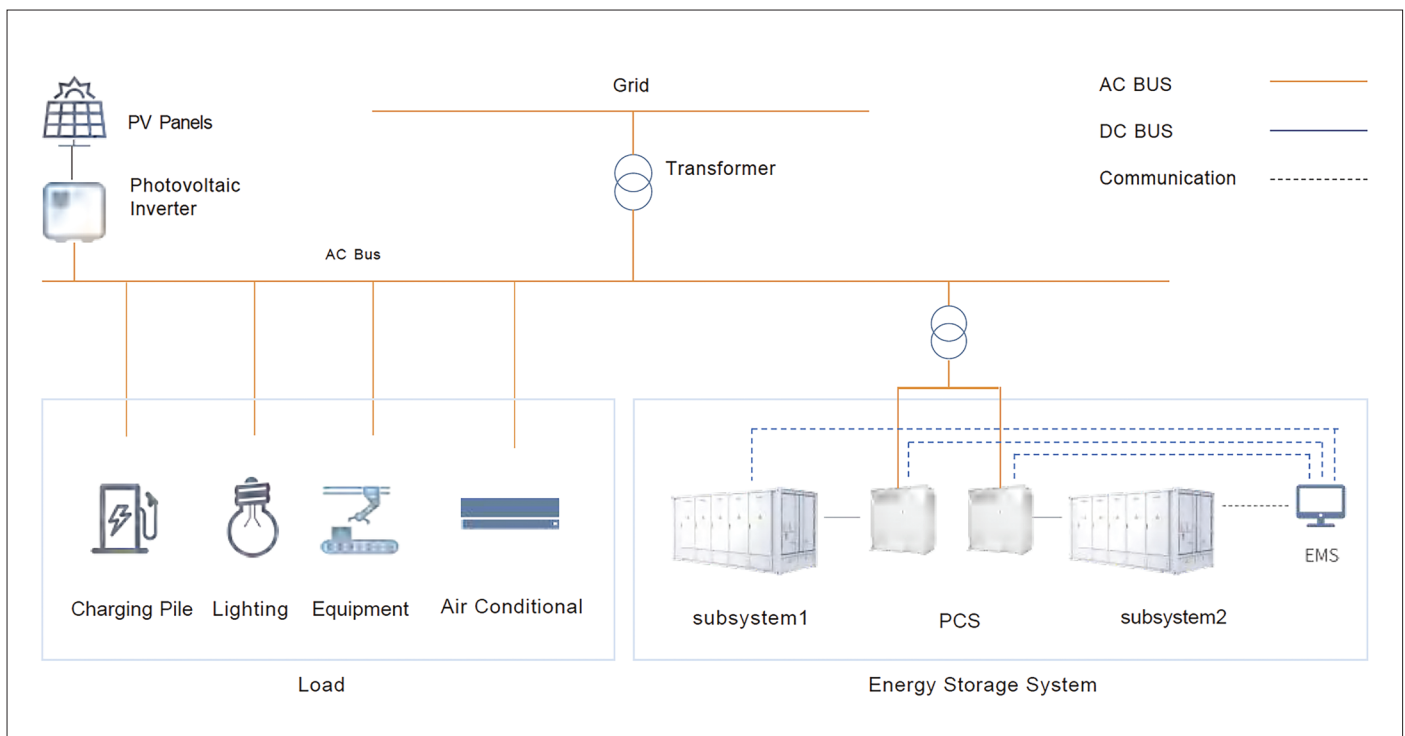
STAR T

To 4MWh, standard container, intelligent liquid cooling

- Ultimate safety
- Standard design
- Intelligent power management
- Outstanding performance
- Smart liquid cooling
- LFP battery



Battery specifications	
Battery type:	LFP
Battery model:	285Ah / 306Ah
Capacity:	1896 to 4073kWh
Voltage Range:	1164.8 to 1497.6Vdc
P-rate	1P
Cooling method:	Liquid cooling
Protection rating:	IP55
Dimensions (W×D×H):	6058 ×2438×2896 mm
Weight:	≈35T
Compliance:	UN 38.3, UN 3536, UL 1973, UL 9540A, IEC 62619, IEC 61000-6-2/-4, IEC 62477-1, IEC 62933-5-2, IEC 63056, IEC 60730-1





Rolls R - Series LFP

Rolls high performance 12V & 24V R-Series Lithium-Iron-Phosphate (LiFePO₄) batteries provide a compatible drop-in SLA replacement with fast charging/discharging capability, compact case design, up to 48V connectivity, and are up to 50% lighter than equivalent lead-acid battery models.

Offered in popular GC2, G31, 4D & 8D case sizes with a range of capacity options, R-Series Motive Power 36V & 48V LiFePO₄ models allow seamless replacement in a variety of industrial and recreational equipment and up to 6 connected in parallel for increased capacity. Two 48V custom models are also available with durable custom metal case construction designed specifically for golf cart & light EV applications.



Model	BCI	Series & Parallel	Nominal Capacity (Ah)	Rated Capacity (Kwh)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
12 VOLT - 12.8V								
R12-100LFP	G24	4S4P	100	1.28	260	170	211	11.5
R12-135LFP	G31	4S4P	135	1.728	330	173	219	15
R12-150LFP	G31	4S4P	150	1.92	330	173	219	15.5
R12-200LFP	G49	4S4P	200	2.56	490	171	243	22
R12-300LFP	8D	4S4P	300	3.84	521	267	223	33
24 VOLT - 25.6V								
R24-50LFP	G24	2S4P	50	1.28	260	170	211	12
R24-100LFP	G49	2S4P	100	2.56	490	171	243	22
R24-150LFP	8D	2S4P	150	3.84	521	267	223	33.5
MOTIVE POWER								
36 VOLT - 38.4V								
R36-52LFP	G31	1S6P	52	2.00	330	173	219	16.5
R36-60LFP	G31	1S6P	60	2.30	330	173	219	17
R36-65LFP	G31	1S6P	65	2.50	330	173	219	17
R36-100LFP	4D	1S6P	100	3.84	521	238	221	31
R36-120LFP	4D	1S6P	120	4.61	521	238	221	33
48 VOLT - 51.2V								
R48-32LFP	GC2	1S6P	32	1.64	260	180	273	13.8
R48-35LFP	GC2	1S6P	35	1.79	260	180	273	15
R48-105LFP	8D	1S4P	105	5.38	521	267	223	40
R48-105EV-LFP A	METAL	1S4P	105	5.38	404	324	250	45
R48-105EV-LFP B	METAL	1S4P	105	5.38	519	250	265	45

Rolls S Series LFP batteries

Rolls S - Series LFP

Rolls NEW S-Series Lithium-Iron-Phosphate (LiFePO₄) models offer additional enhancements to the high performance R-Series 12V & 24V R-Series drop-in replacement models, including a redesigned case structure with removable cover for authorized service and a number of additional features including up to 4S4P or 1S6P connectivity, an integrated display & controls with visual state-of-charge (SOC) indication, operating protections with visual error indication, heating for low temperature operation [-20°C (-4°F) to 0°C(32°F) charging] external fuse access, a dedicated app and Bluetooth connectivity.



Model	BCI	Series & Parallel	Nominal Capacity (Ah)	Rated Capacity (Kwh)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
12 VOLT - 12.8V								
S12-100LFP	G24	4S4P, 1S6P	100	1.28	266	177	235	12
S12-135LFP	G31	4S4P, 1S6P	135	1.728	332	171	227	15.5
S12-150LFP	G31	4S4P, 1S6P	150	1.92	332	171	227	16
S12-200LFP	G49	4S4P, 1S6P	200	2.56	505	185	243	23
S12-300LFP	8D	4S4P, 1S6P	300	3.84	522	268	240	34
24 VOLT - 25.6V								
S24-50LFP	G24	2S4P, 1S6P	50	1.28	266	177	235	12.5
S24-100LFP	G49	2S4P, 1S6P	100	2.56	505	185	243	23.5
S24-150LFP	8D	2S4P, 1S6P	150	3.84	522	268	240	34.5



S - Series LFP ESS

Rolls 48V 100Ah S-Series Lithium-Iron-Phosphate (LiFePO₄) Energy Storage System (ESS) models offers a fully integrated and scalable energy storage solution with built-in LCD screen & controls, secondary protections in a rack-mount [19" (482mm)] 4U case design. The optional Rolls LFP ESS modular cabinet allows up to 8-unit installation with top mount connectivity, including CAN bus, and locking casters, offering added safety in a custom, streamlined design.



Model	BCI	Series & Parallel	Nominal Capacity [Ah]	Rated Capacity [Kwh]	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
48 VOLT - 51.2V								
S48-100LFP ESS	4U	1S15P	100 Ah	5.12 kWh	502	485	173	50.5



Shipping & Health and Safety

Storage

- Keep lithium batteries stored in the original packaging they were supplied in.
- Store them in a cool, dry environment and out of direct sunlight and away from heat sources.
- Store lithium batteries safely in their own area, and securely so that they cannot fall or be dropped.
- Do not mix new and used batteries.

Transport

- Lithium batteries when transported by road, must follow the relevant legislation: – the Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR).
- For lithium batteries of a size where ADR regulations apply, Ecobat supply the batteries in UN approved packaging.
- Lithium batteries can be safely transported by customers vehicles when retained in the original UN approved packaging, providing specific lithium training has been given and documentation is completed in accordance with ADR guidance.

Charging

- Our lithium batteries are supplied with a charge of 30-50%.
- The battery should be fully charged before supply to your customer.
- A lithium specific charger should be used such as the CTEK lithium XS 5amp.
- Automotive chargers that include a pulse phase in the charging algorithm should be avoided as this could damage the battery.

Fire Prevention

- Lithium batteries should be stored separately from any other flammable stocks or goods, thus ensuring that in the event of a fire, no flash-over or increased fire loss can occur.

Fire Suppression and Extinguishers:

- Dry powder extinguishers
- Carbon dioxide extinguishers
- Fire blanket systems

Waste Batteries

- Due to environmental threat and fire risk, lithium batteries should be recycled carefully.
- At Ecobat we can arrange collection of your waste lithium battery in partnership with Ecobat Logistics.

Do not place damaged batteries in regular rubbish or recycling containers.

Damaged, defective, broken and recalled Li-ion batteries must be properly packaged and shipped so that they will not create safety problems during transportation.

Complete Material Safety Data Sheets (MSDS) for all Ecobat products are available upon request. Stockists and re-sellers of lithium batteries should consult with the appropriate legislation to ensure full compliance.



Terminals	Description	Key
BAT001	Standard Positive Terminal 25mm	A
BAT002	Standard Negative Terminal 25mm	A
BAT003	Heavy Duty Positive Terminal 50mm	A
BAT004	Heavy Duty Negative Terminal 50mm	A
BAT005	Heavy Duty Positive Terminal 70mm	A
BAT006	Heavy Duty Negative Terminal 70mm	A
BAT009	Positive Standard Post To Thread Male 8mm	B
BAT010	Negative Standard Post To Thread Male 8mm	B
BAT011	Positive Standard Post To Thread Male 10mm	B
BAT012	Negative Standard Post To Thread Male 10mm	B
BAT013	Positive Quick Release Terminal	C
BAT014	Negative Quick Release Terminal	C
BAT017	Positive Japanese 'O' Sleeve	D
BAT018	Negative Japanese 'O' Sleeve	D
BAT022	Ford Terminal Adaptor	E

Link Leads	Description	Key
Link/4000	Battery link lead 50mm ² /300mm length*	F
Link	Battery link lead 95mm ² /550mm length*	F

* Alternative link lead length & terminals available upon request

Miscellaneous	Description	Key
EXT001	Small Battery Box	G
EXT002	Large Battery Box	H
EXT003	Battery Hydrometer	I
EXT009	Universal Battery Clamp	J
EXT010	Terminal Anti Corrode Paste	K
EXT011	Crimping Tool (10mm ² - 35mm ²)	L

Water	Description	Key
DIS001	1Ltr Distilled Water	-
DIS002	5Ltr Distilled Water	-
DIS003	25Ltr Distilled Water	-
DIS005	Distilled Water Dispenser	M

Battery Spares

Whether your need is for replacement connector, plug and harness kit, Autofill spares, terminals or just a simple replacement vent cap, we have a huge range of spares available in stock to keep your equipment safe and operational.



A		B	
C		D	
E		F	
G		H	
I		J	
K		L	
M			

Health & safety

If treated with care and taking the proper precautions, batteries can be handled safely with the minimum of risk.

HANDLING PROCEDURES

Always wear acid resistant clothing, goggles, PVC gloves and rubber boots- especially where there is a risk of splashing. Keep batteries upright and only top up cells of batteries with removable vent plugs with distilled water - do not overfill. Always have plenty of water available in case of acid spillage.



STORAGE PROCEDURES

Keep batteries clean and always store in a cool, dry place. Where acid is stored or handled good ventilation is essential.



SPILLAGE PROCEDURES

Wash down small spillages immediately wearing protective clothing. Use plenty of water and direct the jet to the outside of the spillage, working your way inwards to the centre. Larger spillages should be contained with soda ash, sand or earth and finally washed down with water once absorbed.



DISPOSAL PROCEDURE

Once neutralised, the contaminated material should be swept up and taken to a suitable disposal site, provided by the local authority. Batteries must never be disposed of in household waste.



CHARGING PROCEDURES

During charging batteries emit highly flammable hydrogen gas. The charger must always be switched off when connecting or disconnecting. Electrolyte levels must also be checked where appropriate before, during and after charging to ensure the plates are covered – top up with distilled water if necessary.



FIRST AID

Sulphuric acid is a corrosive and poison liquid, in case of accident immediate steps should be taken.

Skin contact – Remove contaminated clothing and soak the affected area with copious amounts of water, seek medical attention if irritation persists

Eye contact – Wash out the eye with plenty of clean running water for at least 10 minutes, seek medical attention.

Ingestion – Immediately drink as much water as possible, do NOT induce vomiting, seek urgent medical attention.



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