



ENERPOWER

INDUSTRIAL BATTERIES

AGM and GEL

OPzS and OPzV

Light Traction Batteries

Special Starter Batteries

Carbon Lead Batteries

Lithium LiFe PO4



Energy from batteries



Enerpower is a company specialized in the supply, the installation and technical assistance services of high quality products in the sector of Industrial **batteries**, Carbon lead **batteries**, Lithium **batteries**, special starter **batteries** and synergistic products such as **Battery chargers**, **Inverters** and **Power stations** for PV plants in the renewable energy sector, (solar - wind), and **special equipment** for battery tests.

COMPANY ORGANIZATION

Our company has gained a long experience in the sector and is able to provide offers and quotations for the most varied types of applications (UPS, renewable energy, electric vehicles, floor cleaning machines, forklifts, etc.). The vast range of products includes, in addition to the most suitable batteries for a wide range of applications, other complementary products that put our company in a leading position to offer a timely and efficient customer service.

TECHNICAL ASSISTANCE

Great importance is given to our technical assistance service with specialized personnel and equipment able to verify the batteries status through digital certifications both in our laboratory and at the customer's plants. Charge and discharge cycles treatments, carried out with suitable equipment, sometimes take batteries with reduced capacity to an acceptable efficiency, of which we issue certificates with diagrams and main parameters.

Good logistics and a warehouse with high stock products, always ready for delivery, allows order processing in a very short time.

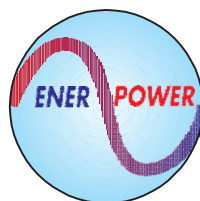
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OUR CLIENTS

Among our major clients are very large companies operating in the IT sector, UPS sector, industrial plants and telecommunications sector and other companies operating in the solar energy, photovoltaic and wind power field, batteries for electric vehicles and traction (floor clearing machines, boats, campers, bicycles, golf-cars, ect.)

WHY CHOOSE OUR COMPANY

Choosing Enerpower means choosing quality, a right price and a complementary service such as experience, assistance and a technical support for new projects. We suggest you to visit our site and contact us for any information, enquiries and quotation. You can write us directly by e-mail to the following address: gestione@enerpowersrl.com or call our sales office at 039 832152.



ENERPOWER s.r.l.

Via Boccioni, 7 - 20900 MONZA (MB) - ITALY

tel. ++39 039.833172 - fax ++39 039.2230441

e-mail: segreteria@enerpowersrl.com - www.enerpowersrl.com

STATIONARY INDUSTRIAL BATTERIES

AGM and GEL



Applications:

Control equipment,
Operating rooms, Alarm
systems, Emergency systems,
Emergency Rescuers, Power
Stations, Telecommunications,
UPS, Video Surveillance, PV
Systems, On board services

Features:

AGM Technology,
Sealed without
maintenance.

5÷6 Years of expected life
in backup at (20°C) ≤ 18Ah,
10÷12 Years of expected life
in backup at (20°C) > 18Ah.



Applications:

Alternative energies
(Solar - Wind),
Telecommunications,
Operating rooms,
UPS, Power plants,
On-board services
Marine industry

Features:

GEL Technology,
Sealed without maintenance.
12 years of expected life
in backup at (20°C)
according to EUROBAT
guidance.

SLC Series – 6/12V –AGM Technology

Model	Volt	Ah (C/20)	Terminal	L mm	W mm	H mm	Weight Kg
SLC Series - 6V							
SLC 1,2-6A	6	1,2	F1	97	24	58	0,3
SLC 4,5-6A	6	4,5	F1	70	47	105	0,8
SLC 7-6A	6	7	F1/F2	151	34	101	1,1
SLC 12-6A	6	12	F1	151	51	101	1,8
SLC Series - 12V							
SLC 1,2-12A	12	1,2	F0/F3	97	43	58	0,6
SLC 2,3-12A	12	2,3	F0/F3	178	35	66	1,0
SLC 5-12A	12	5	F1/F2	90	70	107	1,9
SLC 7-12A	12	7	F1/F2	151	65	100	2,0
SLC 7,2-12A	12	7,2	F2	151	65	100	2,3
SLC 9-12B	12	9	F2	151	65	100	2,5
SLC 12-12D	12	12	F2	151	98	101	3,6
SLC 18-12D	12	18	F12	182	77	167	5,5
SLC 24-12E	12	24	F12	167	175	125	7,2
SLC 24-12H	12	24	F12	165	125	175	8,7
SLC 26-12B	12	26	F12	167	175	125	8,0
SLC 28-12A	12	28	F12	167	175	125	8,4
SLC 33-12B	12	33	T6	195	130	170	10,5
SLC 40-12D	12	40	T6	197	165	170	12,2
SLC 50-12A	12	50	B4	228	138	214	15,5
SLC 55-12B	12	55	T6	228	138	214	16,5
SLC 60-12A	12	60	T6	259	168	214	18,5
SLC 65-12A	12	65	T6	348	167	178	19,2
SLC 70-12B	12	70	T6	259	168	214	21,0
SLC 80-12B	12	80	T6	259	168	214	22,3
SLC 90-12A	12	90	T6	307	171	220	28,0
SLC 100-12A	12	100	B5	330	173	220	29,0
SLC 120-12A	12	120	F11	410	177	225	35,0
SLC 120-12D	12	120	F11	330	173	220	30,4
SLC 140-12A	12	140	B5	344	171	280	41,2
SLC 150-12A	12	150	F11	485	170	240	43,5
SLC 200-12A	12	200	F11	522	240	224	59,0
SLC 250-12A	12	250	F11	522	268	226	73,0

GHL Series – 12V

GEL Technology – Long Life – Option: ABS UL94-V0

Model	Volt	Ah (C/20)	Terminal	L mm	W mm	H mm	Weight Kg
GHL Series - 12V							
GHL 26-12A	12	26	T3	166	175	125	7,5
GHL 33-12A	12	33	B4	195	130	168	11,2
GHL 40-12A	12	40	B4	197	165	170	13,3
GHL 50-12A	12	50	B4	228	137	216	16
GHL 55-12A	12	55	B4	228	137	216	17,5
GHL 65-12A	12	65	B4	348	167	178	21,2
GHL 70-12A	12	70	B4	260	168	216	22,7
GHL 80-12A	12	80	B4	259	168	214	22,3
GHL 90-12A	12	90	B5	305	167	220	27,5
GHL 90-12B	12	90	B5	330	173	220	28,4
GHL 100-12A	12	100	B5	330	173	220	29,3
GHL 120-12B	12	120	B5	330	173	220	30,5
GHL 120-12A	12	120	B5	406	173	210	35,6
GHL 140-12A	12	140	B5	344	171	280	42
GHL 150-12A	12	150	B5	485	170	240	42,9
GHL 200-12A	12	200	B5	522	240	224	60
GHL 250-12A	12	250	T16	522	268	226	70,5

STATIONARY INDUSTRIAL BATTERIES

AGM



Applications:

Operating rooms,
Telecommunications,
Video surveillance, UPS,
Emergency, Railway,
Power stations,
Solar plants.

Features:

AGM Technology,
Sealed without
maintenance.
12 anni of expected life
in backup at (20°C).

FAT Series - 12v – AGM Technology – Front terminal

Model	Volt	Ah (C/10h)	Terminal	L mm	W mm	H mm	Weight Kg
FAT Series -12V							
FAT 12-50EX	12	50	F11	277	106	243	16,3
FAT 12-50XA	12	50	F15	279	105	280	20
FAT 12-75SEXA	12	75	F11	563	115	188	28,2
FAT 12-85XA	12	85	F15	393	125	256	33
FAT 12-100EX	12	100	F18	508	110	238	28,5
FAT 12-100SX	12	100	F15	508	110	231	32,5
FAT 12-105SEX	12	105	F12	395	110	293	31,5
FAT 12-105X	12	105	F12	395	110	293	35
FAT 12-125SEX	12	125	F15	436	108	317	36
FAT 12-150EX	12	150	F15	548	105	316	45,5
FAT 12-150X	12	150	F15	548	105	316	48,8
FAT 12-150YX	12	150	F15	548	105	316	41
FAT 12-155X	12	155	F15	551	110	316	51,5
FAT 12-155XA	12	155	F15	546	125	315	61,6
FAT 12-180EX	12	180	F15	546	125	323	53
FAT 12-180X	12	180	F15	546	125	323	58,5

DC-EV Series – 6/12V – AGM Technology

Model	Volt	Ah (C/20)	Terminal	L mm	W mm	H mm	Weight Kg
DC-EV Series - 6V							
DCEV200-6E	6	200	T5	306	168	222	30,5
DCEV210-6E	6	210	T5	260	180	249	30,0
DCEV220-6E	6	220	T5	306	168	222	32,0
DCEV225-6	6	225	T5	243	187	275	30,5
DCEV330-6F	6	330	T7	295	178	366	46,6
DCEV380-6F	6	380	T5/T6	295	178	410	55,3
DCEV400-6	6	400	AP	295	179	424	55,3
DCEV420-6F	6	420	T5/T6	295	178	410	56,8
DC Series - 12V							
DCEV14-12D	12	14	F2	152	99	102	3,8
DCEV20-12B	12	20	T1/L1	181	77	167	6,0
DCEV24-12B	12	24	T1	166	175	126	8,3
DCEV26-12B	12	26	T2	165	126	179	8,4
DCEV35-12A	12	35	T3	196	130	167	10,5
DCEV40-12A	12	40	T2	198	166	174	14,2
DCEV50-12A	12	50	T2	198	166	174	14,6
DCEV55-12A	12	55	T3	229	138	212	16,0
DCEV70-12B	12	70	T3	350	167	178	23,5
DCEV75-12A	12	75	T3	260	169	227	25,0
DCEV90-12A	12	90	T3	307	169	216	28,2
DCEV100-12	12	100	T3	307	169	215	30,2
DCEV110-12B	12	110	T4	331	174	220	33,5
DCEV120-12A	12	120	T5	407	173	233	39,5
DCEV135-12A	12	135	T5	344	172	285	41,5
DCEV150-12A	12	150	T4	484	171	241	46,0
DCEV180-12C	12	180	T4	532	206	222	56,0
DCEV200-12C	12	200	T5	532	206	222	58,8
DCEV210-12C	12	210	T5	522	240	225	66,0
DCEV240-12C	12	240	T5	520	268	207	71,0
DCEV260-12C	12	260	T5	520	268	226	77,0

Applications:

Electric vehicles, Sweepers,
Floor cleaning machines,
Aerial platforms, Golf cars,
Boats, Campers, PV Plants,
Operating Rooms, Emergency
systems, UPS, Power stations.

Features:

AGM Deep Cycle Technology,
Sealed without maintenance.
Excellent behavior in cycles,
Use of special alloys
against corrosion,
1,500 discharge cycles at
30% D.o.D.

STATIONARY INDUSTRIAL BATTERIES

OPzS and OPzV



Applications:

Monitoring equipment,
Power stations,
Operating rooms,
Back-up systems,
Emergency systems,
Energy stations,
Telecommunications,
UPS, PV systems.

Features:

Without maintenance,
Very low self discharge,
Low content of antimony,
Excellent operation at
low / high temperatures.
16 years of expected life
in backup at (20°C).

OPzS Series - 2V – Vented tubular plate DIN OPzS

Model	Volt	Ah (C/10)	Ah (C/100)	L mm	W mm	H mm	Weight Kg
Tubular plate batteries "DEEP CYCLE Service" - 2V - Piombo aperto							
OPzS 2-100	2	115	140	103	206	380	13,8
OPzS 2-150	2	171	204	103	206	380	15,7
OPzS 2-200	2	215	257	103	206	380	17,5
OPzS 2-250	2	270	323	124	206	380	21,4
OPzS 2-300	2	323	386	145	206	380	25,7
OPzS 2-350	2	387	463	124	206	496	28,4
OPzS 2-420	2	465	556	145	206	496	33,5
OPzS 2-490	2	542	648	166	206	496	38,6
OPzS 2-500	2	589	704	145	206	671	42
OPzS 2-600	2	656	784	145	206	671	45,8
OPzS 2-700	2	811	970	191	210	671	60
OPzS 2-800	2	875	1046	191	210	671	63,8
OPzS 2-900	2	1031	1233	233	210	671	73
OPzS 2-1000	2	1095	1309	233	210	671	78,2
OPzS 2-1200	2	1312	1569	275	210	671	91,3
OPzS 2-1375	2	1581	1890	275	210	821	110,5
OPzS 2-1500	2	1669	1995	275	210	821	115,1
OPzS 2-1750	2	2021	2416	397	212	797	143,3
OPzS 2-1875	2	2136	2554	397	212	797	148,9
OPzS 2-2000	2	2227	2663	397	212	797	154,5
OPzS 2-2250	2	2574	3077	487	212	797	184
OPzS 2-2500	2	2791	3337	487	212	797	201
OPzS 2-3000	2	3343	3997	576	212	797	230
Tubular plate batteries "DEEP CYCLE Service" - 6V - Piombo aperto							
OPzS 6-150	6	161	183	233	224	378	41,2
OPzS 6-200	6	206	232	272	205	363	47,1
OPzS 6-250	6	258	291	380	205	363	60,9
OPzS 6-300	6	304	340	380	205	363	67,1
Tubular plate batteries "DEEP CYCLE Service" - 12V - Piombo aperto							
OPzS 12-50	12	57	66	272	205	363	37,7
OPzS 12-100	12	103	120	272	205	663	49,4
OPzS 12-150	12	154	180	380	205	363	69,8



Applications:

Monitoring equipment,
Power stations, Operating
rooms, Back-up systems,
emergency systems,
energy stations,
telecommunications, UPS,
PV systems and alternative
energies (solar - wind).

Features:

GEL Technology, Sealed
without maintenance.
16 years of expected life
in backup at (20°C).

OPzV Series - 2V – GEL tubular plate batteries

Model	Volt	Ah (C/10)	Ah (C/100)	L mm	W mm	H mm	Weight Kg
Tubular plate batteries "DEEP CYCLE Service" - 2V - GEL							
OPzV 2-200	2	224	256	103	206	382	20
OPzV 2-250	2	280	322	124	206	382	24
OPzV 2-300	2	336	388	145	206	382	28
OPzV 2-350	2	405	468	124	206	498	31
OPzV 2-420	2	486	562	145	206	498	37
OPzV 2-490	2	567	656	166	206	498	42
OPzV 2-600	2	690	798	145	206	673	50
OPzV 2-800	2	920	1064	191	210	673	68
OPzV 2-1000	2	1150	1330	233	210	673	82
OPzV 2-1200	2	1380	1596	275	210	673	97
OPzV 2-1500	2	1620	1874	275	210	824	120
OPzV 2-1625	2	1755	2030	399	214	799	143
OPzV 2-1750	2	1890	2186	399	214	799	150
OPzV 2-1875	2	2025	2342	399	214	799	157
OPzV 2-2000	2	2160	2498	399	214	799	165
OPzV 2-2250	2	2430	2811	487	212	799	183
OPzV 2-2500	2	2700	3123	487	212	799	200
OPzV 2-3000	2	3240	3747	576	212	799	240
Tubular plate batteries "DEEP CYCLE Service" - 6V - GEL							
OPzV 6-200	6	206	238	272	205	363	49
OPzV 6-250	6	257	297	380	205	363	64
OPzV 6-300	6	309	357	380	205	363	70
Tubular plate batteries "DEEP CYCLE Service" - 12V - GEL							
OPzV 12-50	12	51	59	272	205	363	40
OPzV 12-100	12	102	118	272	205	663	52
OPzV 12-150	12	153	177	380	205	363	73

STATIONARY INDUSTRIAL BATTERIES

AGM Technology CL Series



Applications:

Telecommunications;
Emergency lighting;
Power plant; Nuclear power
plant; Solar and wind energy;
Naval; Cogeneration plants;
Alarm systems; UPS;
Stand-by power supply;
Medical equipment;
Fire and safety systems;
Control equipment

Features:

AGM (VRLA) Technology
Environmentally friendly
materials

Maintenance Free

Operating (-15 ÷ +45°C)

20 years expected life at >25°C

Excellent behavior at high cycles

high discharge capacity

Low self-discharge

Vertical or horizontal installation

No need for charge equalization

or fast charge

No memory effect

Design:

Positive and Negative plates
with lead-calcium alloy grids

Fiberglass separators

Low pressure safety valves

from 1 psi to 6 psi

(0.07 to 0.43 kg / cm²)

Terminals of suitable section

protected against rising acid

with large contact surfaces

and self-shrinking materials.

ABS resin containers and lid

AGM Flat plate batteries - 2V

The CL series battery is recognized as a very reliable and high quality battery in the VRLA sealed battery industry. The CL series batteries designed with an advanced AGM (Absorbent Glass Mat) technology and a long service life designed to last for 20 years, comply with the most common international standards, such as IEC60896-21 / 22, BS6290-4, Eurobat Guide.

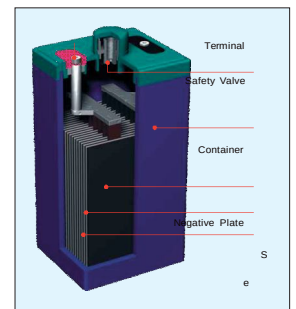
Product Standard

All CL series batteries comply with the DIN, IEC60986-21 / 22 and BS6290-4 quality standards. All the models have obtained the UL approval (MH25860) and the CE certification. Therefore, they are built by ISO9001 and ISO14001 certified companies. All this makes our batteries compatible with the requirements of world class equipment.

General Features

Quality and high reliability - The battery is well known for its stable and reliable performance. They are easy to maintain, thus allowing a safe and correct operation of the equipment powered by the battery. The battery can withstand overloads, vibrations and shocks. The sealed type construction ensures that there is no leakage of electrolyte from the terminals or the container of any battery. This function ensures safe operation and efficient batteries in any position. The batteries are classified as "Non-Spillable"

and they meet all the requirements of the International Air Transportation Association. (IATA regulation on dangerous goods, 41 # Edition, Section 4.5A, Special Pro: A67). Calcium alloy grids lead-reinforced batteries provide an extra margin of performance and durability in both buffer and cycle applications, even in deep discharge conditions.



Model	Volt	Ah (C/10h)	Terminal	L mm	W mm	H mm	H tot mm	Weight Kg
CL-2V Series								
CL100	2	100	F10	171	72	206	211	6.4
CL150	2	150	F10	172	102	205	217	8.2
CL200E	2	200	F10	173	111	329	364	13.7
CL300E	2	300	F10	171	151	330	364	19.3
CL400E	2	400	F10	211	176	329	367	26.6
CL500E	2	500	F10	242	173	330	365	31.9
CL600E	2	600	F10	302	175	331	343	38.5
CL800E	2	800	F10	410	175	330	367	53.5
CL1000E	2	1000	F10	475	175	328	367	63.5
CLS1000	2	1000	F10	410	175	330	367	55.5
CL1200	2	1200	F10	400	350	345	367	88.5
CL1500	2	1500	F10	400	350	345	382	100
CL2000E	2	2000	F10	490	350	345	382	125
CL3000	2	3000	F10	710	350	345	382	210

LEAD INDUSTRIAL BATTERIES

Lead-Cadmium

News

Very high number of cycles

A new generation of lead batteries regulated by valves with extremely high capacity and extremely long cycle life. Using technology and long-lasting design, over 4200 cycles (3000 cycles for DCS batteries) at 70% DOD.

Lead-Carbon innovative technology

With this new technology the new Carbon Lead batteries improve charge acceptance, reduce the sulphation of the negative plate. Particularly suitable for application to cycles (for example in solar systems) where the complete recharging of the battery (PSOC) is not always guaranteed.

Advanced manufacturing technology

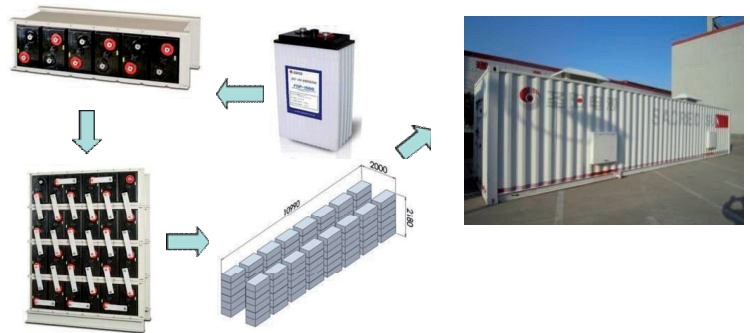
Advanced production technology and a rigorous manufacturing process guarantee the product consistency and reliability.

Design of modular systems

Modular design and installation, compact structure, space-saving, easy installation and maintenance.

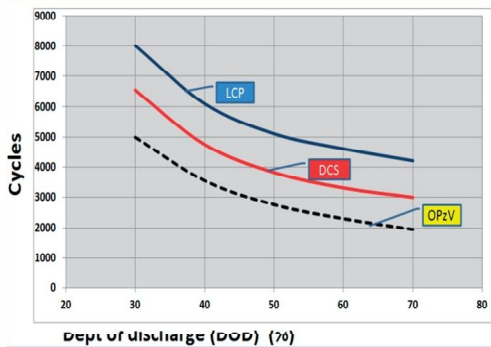
Norme

- IEC 61427-2014
- Bs 6290-4: 1997
- Yd / t 799-2010
- ISO9001, ISO 14001, OHSAS 18001, UL and CE certifications

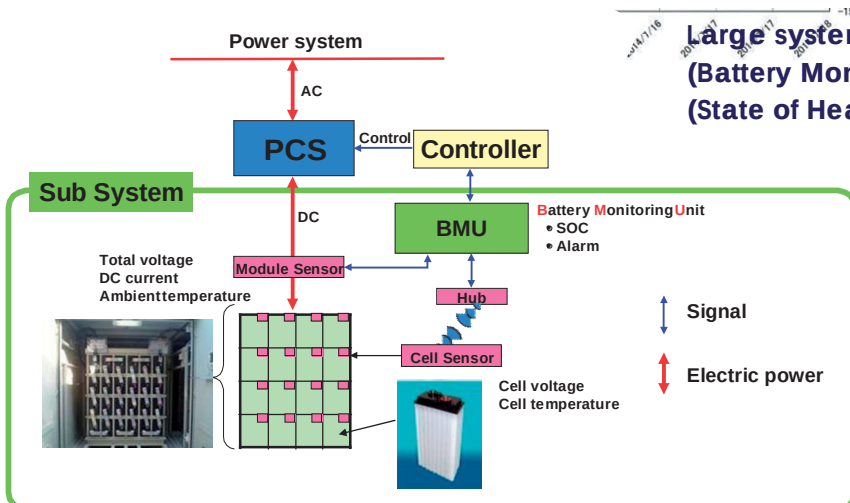


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DCS & LCP Product Specifications

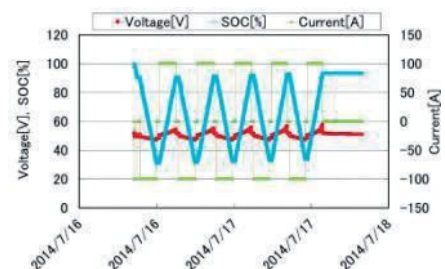


Specification		DCS12-50	LCP-500	LCP1000
Nominal voltage (V)		12	2	2
Nominal capacity (Ah)		50	500	1000
Nominal capacity (Wh)		600	1000	2000
Weight (kg)		25,5	41	75
Dimensions (mm)	Height	175	508	508
	Width	165,5	172	172
	Length	350	166	303
Internal Resistance (M Ω , 25°C)		4,7	0,3	0,2
Internal Resistance (M Ω , 25°C)		M6	M10	M10
Mass energy density (Wh/kg)		60	67	77
Maximum current	Charge	0,2C10A	0,2C10A	0,2C10A
	Discharge	0,4C10A	0,4C10A	0,4C10A
Cycle life (25°C)	70%DOD	3000	4200	4200



Large system equipped with BMU

(Battery Monitoring Unit), monitor SOC and SOH (State of Health) of cells remotely and in real time.



INDUSTRIAL SPECIAL STARTER BATTERIES AGM & SEALED



Applications:

Particularly suitable for the engine starting of all types of vehicles, Generating sets, Cars, Trucks, Campers, Ambulances, Boats, Sports cars, Forklifts.

Features:

Maintenance free, high inrush currents, vibration resistance, good charge acceptance



Applications:

High capacity and high starting power for all types of vehicles, Generating sets, Cars, Trucks, Campers, Ambulances, Boats, Sports cars, Forklifts

Features:

Calcium-calcium technology, heat-sealed lid to prevent acid leakage, sealed and maintenance free, high-quality envelope separators, thicker plates, greater starting power, equipped with optical hydrometer.



Applications:

The YE Supreme battery guarantees high capacity and high starting power.

Features:

Calcium-calcium technology, heat-sealed lid to prevent acid leakage, sealed and maintenance-free, high-quality envelope separators, thicker plates, greater starting power, equipped with optical hydrometer.

HC Series – 12V – AGM Technology – High Cranking

Model	Volt	Ah (C/20)	CCA @0°F	CA @0°C	HCA @ 80°F	PHCA 5 sec	L mm	W mm	H mm	Weight Kg	Terminal
Serie YE Supreme - 12V											
HC20	12	20	230	310	410	680	181	77	167	7	M6
HC30	12	30	450	550	635	950	250	97	156	10,6	M6M
HC40	12	40	500	600	700	1100	250	97	206	14,9	M6M
HC44	12	44	560	725	860	1200	198	166	170	15,1	M8
HC50	12	50	610	745			241	175	190	19,1	AP
HC60B	12	60	680	810			278	175	190	21,8	AP
HC65/B	12	65	825	1000	1200	1500	261	172	187	20,8	M8
HC70	12	70	900	1080	1250	1650	351	167	179	24,8	M8
HC80	12	80	890	1070			353	175	190	27,7	AP
HC100	12	100	965	1170	1380	1950	307	169	237	32,2	DT
HC105	12	105	1050	1300	1505	2150	330	172	220	34	M8
HC14V50	14	50	570	675	820	1250	260	164	183	19,1	M6

YE Series – 12V – Starter batteries for generator sets

Codice	Capacità Ah	A	EN	Terminali	Attacchi	Lay-out	Codice Numero		L mm	W mm	H mm	Weight kg.
							DIN	Piastre				
Serie YE - 12V												
YE 12-48400	12	48	400	54577	B1	0	219	133	220	12,7	AB	
YE 12-55460	12	55	460	55054	B13/B14	0	207	175	190	13,9	AB	
YE 12-63520	12	63	520	55593	B13/B14	0	242	175	175	15,5	AB	
YE 12-80700	12	80	700	57412	B13/B14	0	278	175	190	20,5	AB	
YE 12-90800	12	90	800	58042	B13/B14	0	313	175	175	21,5	AB	
YE 12-100721	12	100	721	60033	B1	0	303	175	220	23	AP	
YE 12-100850	12	100	850	60038	B13/B14	0	353	175	190	24,3	AP	
YE 12-110750	12	110	750	61047	B0	0	345	175	225	23,5	AP	
YE 12-140820	12	140	820	62038	B3	4	510	189	225	35	AP	
YE 12-1801001	12	180	1001	38032	B0	3	510	218	220	42	AP	
YE 12-2051150	12	205	1150	38022	B0	3	510	223	220	45	AP	
YE 12-2301150	12	230	1150	71014	B0	3	506	277	235	56	AP	

AV Series – 12V – Starter batteries for AUTOMOTIVE

Model	Volt	Ah (C/20)	CCA @0°F	Mono-blocco	Lay Out	L mm	W mm	H mm	Terminal
Av Series - 12V									
AV03512-300-E1-SM	12	35	300	E1	+DX	187	132	225	AP
AV04412-360-L1-SM	12	44	360	L1	+DX	207	175	190	AP
AV06312-540-L2-SM	12	63	540	L2	+DX	242	175	190	AP
AV07012-580-D26-SM	12	70	580	D26	+DX	260	175	225	AP
AV07012-640-L3-SM	12	70	640	L3	+DX	276	175	190	AP
AV07412-680-L3B-SM	12	74	680	L3B	+DX	276	175	175	AP
AV08012-600-D26-SM	12	80	600	D26	+DX	260	175	225	AP
AV08012-680-L3-SM	12	80	680	L3	+DX	276	175	190	AP
AV09012-680-D26-SM	12	90	680	D26	+DX	260	175	225	AP
AV09212-800-L5B-SM	12	92	800	L5B	+DX	353	175	175	AP
AV10012-720-D31-SM	12	100	720	D31	B0	302	175	225	AP
AV10012-700-L4-SM	12	100	700	L4	+DX	315	175	190	AP
AV12512-900-MACA-SM	12	125	900	MACA	+SX	513	189	220	AP
AV14012-1000-MACA-SM	12	140	1000	MACA	+SX	513	189	220	AP
AV15012-950-MAC-SM	12	150	950	MAC	+DX	510	218	230	AP
AV16012-950-MACB-SM	12	160	950	MACB	+SX	513	223	223	AP
AV18012-1100-MACB-SM	12	180	1100	MACB	+SX	513	223	223	AP
AV20012-1300-MACC-SM	12	200	1300	MACC	+SX	518	273	242	AP
AV22012-1300-MACC-SM	12	220	1300	MACC	+SX	518	273	242	AP
AV22512-1150-MACC-SM	12	225	1150	MACC	+SX	518	273	242	AP

LITHIUM INDUSTRIAL BATTERIES

LiFePO4

News

ENERPOWER can supply a wide range of LiFePO4 batteries (Lithium Iron Phosphate)

The LFP series batteries are made using the same modules and accessories as the 12 V batteries. The 12V family has been designed to replace the lead-acid batteries and therefore with similar dimensions that offer a double expected life with half the weight. The 12V series is designed for low voltage, low power and extended operation. They are built with Vision LFP technology that offers exceptional intrinsic safety and excellent durability in buffer operation with an excellent behavior to cycles and an excellent cost-benefit ratio.

General features

- Integrated automatic protection for over-charging, deep discharge and over-temperature.
- Internal cell balancing / equalization
- Data monitored through Battery Management System (BMS)

Applications: LFP Series - LifeP04 Batteries

Emergency lights,
Solar and eolic power
plants, Golf cars

Features:

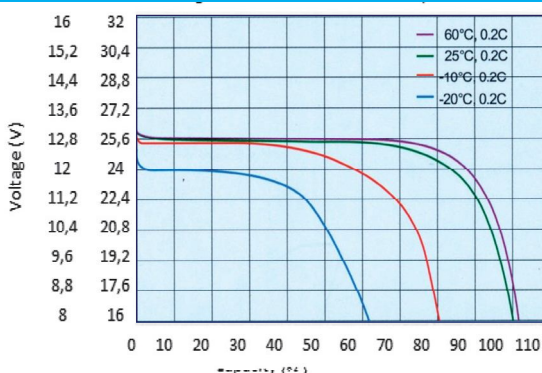
LiFePO4
Technology
Maintenance free.
> 2500 cycles,
100% DOD



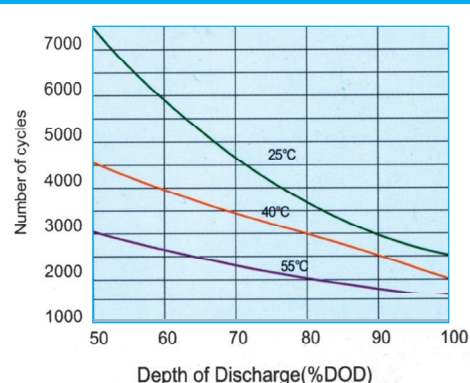
Model	V _N	Nominal capacity (Ah)	Energy Nominal (Wh)	MAX Charge (A)	Max Discharge (A)	Weight (Kg)	Dimension mm (LxWxH)	Terminal	IP Degree
Serie LFP - 12V									
LFP-12V4,5Ah	12,8	4,5	58	4,5	10	0,7	90 70 107	F 250	IP50
LFP-12V6Ah	12,8	6	77	6	10	0,8	90 70 107	F 250	IP50
LFP-12V7,5Ah	12,8	7,5	96	7,5	20	1,3	151 65 100	F 250	IP55
LFP-12V10Ah	12,8	10	128	10	20	1,5	151 65 100	F 250	IP55
LFP-12V15Ah	12,8	15	192	15	20	1,9	151 98 101	F 250	IP50
LFP-12V20Ah	12,8	20	256	15	30	3,2	181 77 167	M5	IP55
LFP-12V30Ah	12,8	30	384	20	30	4,6	166 175 125	M5	IP50
LFP-12V40Ah	12,8	40	512	20	30	6,5	198 167 170	M6	IP55
LFP-12V50Ah	12,8	50	640	50	50	8	229 138 213	M6	IP55
LFP-12V60Ah	12,8	60	768	30	30	9,4	229 138 213	M6	IP55
LFP-12V80Ah	12,8	80	1024	30	30	12,8	258 166 215	M8	IP50
LFP-12V100Ah	12,8	100	1280	50	50	14,5	330 175 220	M8	IP55
LFP-12V100AhF	12,8	100	1280	50	50	15,5	395 110 293	M8	IP55
LFP-12V200Ah	12,8	200	2560	70	70	31,9	520 269 208	M8	IP50
Serie LFP - 24V									
LFP-24V10Ah	25,6	10	256	10	30	3,2	181 77 167	M5	IP55
LFP-24V20Ah	25,6	20	512	20	30	6,5	198 167 170	M6	IP55
LFP-24V60Ah	25,6	30	768	30	30	9,4	229 138 213	M6	IP55
LFP-24V80Ah	25,6	80	1024	30	30	12,8	258 166 215	M8	IP50
LFP-24V50AhF	25,6	50	1280	50	50	15,5	395 110 293	M8	IP55
LFP-24V60AhF	25,6	60	1536	50	50	17,5	436 108 317	M8	IP55
LFP-24V100Ah	25,6	100	2560	50	50	31,9	520 269 208	M8	IP50

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Discharge curves under different temperatures



Cycle life versus DOD and temperature at 0.2C



LITHIUM INDUSTRIAL BATTERIES

LiFeP04

Batteries for electric wheelchairs

- Integrated automatic protection for overload, over-discharge and over-temperature conditions
- Internal cell balancing
- Communication of monitored data via battery - Management system (BMS)
- Thousands of cycles, 100% DOD, under normal conditions



Model	Nominal Voltage (V)	Nominal capacity 25°C - 1C(Ah)	Specific Energy (Wh/Kg)	Standard Charge CC/CA				Standard Discharge 25°C				Weight (Kg)	Terminals	IP Degree	Dimension		
				Recommended Charge (A)	Float Voltage (V)	Cycle Voltage	Charge Time (h)	Max. cont. Current (A)	Max 10 sec. Pulse (A)	Cut. Off voltage (V)					L	W	H
LFP-12V40Ah	12,8	40	80	20	13,8	14,4	2,5	30	40	10,5		6,4	M6	IP55	202	144	184

Batteries electric bicycles



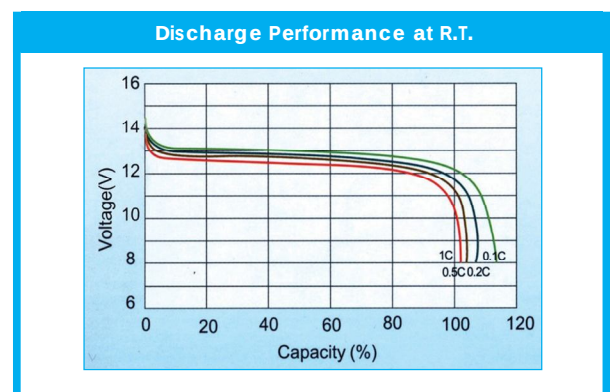
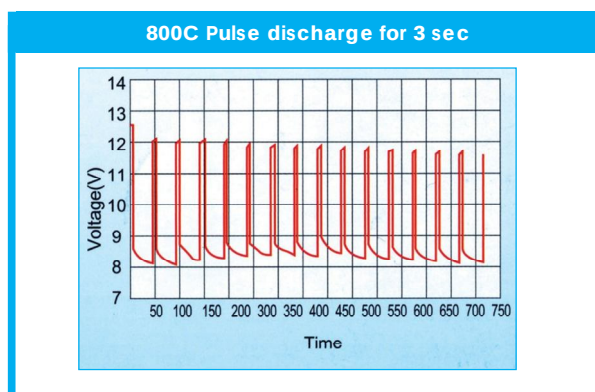
Model	Nominal Voltage (V)	Nominal capacity 25°C - 1C(Ah)	Specific Energy (Wh/Kg)	Standard Charge CC/CA			Standard Discharge 25°C				DC Internal resistance (max)	Weight (Kg)	Dimension		
				Recommended Charge (A)	Float Voltage (V)	Charge Time (h)	Max. cont. Current (A)	Max 10 sec. Pulse (A)	Cut. Off voltage (V)				L	W	H
LMO-48V10Ah	48,1	10	87	2	54,6	4,5	15	20	39		<110	6	365	138	91

Starter batteries for: scooters – lawn mowers – Sliding gates ...

The V-LFP 12V car starter batteries are a family of 12V battery modules and accessories. The 12V family has been designed as a drop-in replacement for lead-acid batteries.



Model	Nominal Voltage (V)	Nominal capacity (Ah)	Nominal Energy (Wh)	Recommended Charge (A)	Max discharge current (A)	Weight (kg)	Dimension		
							L	W	H
LFP-VM	12,8	2	25,6	6	150	0,6	150	85	95
LFP-VM	12,8	2	25,6	6	150	0,5	113	70	130
LFP-VM	12,8	2	25,6	6	150	0,5	120	61	131
LFP-VM	12,8	2	25,6	6	150	0,5	113	70	87
LFP-VM	12,8	3	38,4	10	240	0,7	93	71	110



LITHIUM INDUSTRIAL BATTERIES

LiFeP04

LFP Series - LifeP04 batteries with BMS (Telecommunications)

Batteries including integrated BMS (Battery management system), with a simple function to protect against overcharging, under-charging, short-circuiting and cell balancing, for the complete management of:

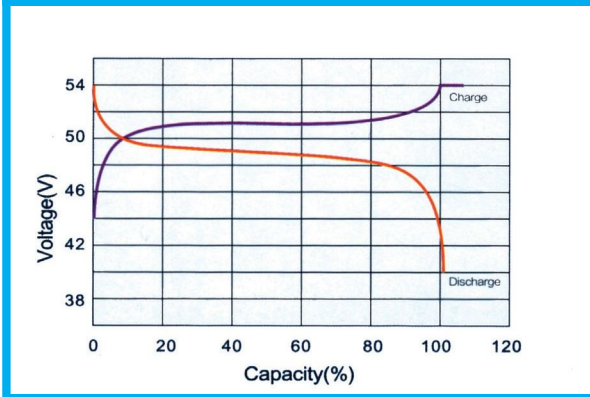
Self-check, Voltage, current and temperature data, Capacity calculation (SOC), Active balancing function (patented), Overcurrent, Overvoltage, Temperature protection, Communication (Display, Car Can Bus communication), Malfunction alert function, Charge and discharge management, High Voltage Loss Alert, Thermal Management.



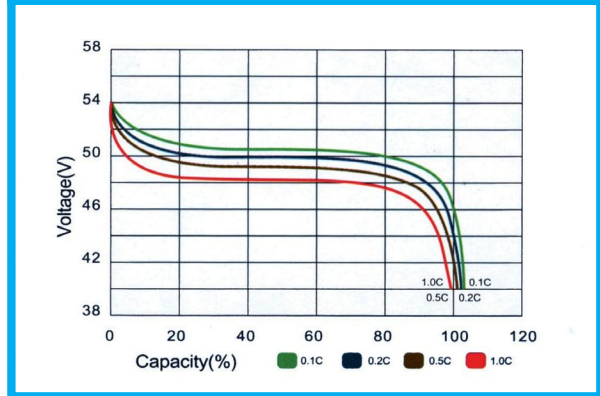
Model	Nominal Voltage (V)	Nominal capacity (Ah)	Nominal Energy (Wh)	Recommended Charge (A)	Max cont. current (A)	Weight (Kg)	Terminal	Dimension mm (L x W x H)		
LFP-48V10Ah	48	10	500	5	10	8	M6	442	285	44
LFP-48V20Ah	48	20	1000	10	20	14	M6	442	285	88
LFP-48V30Ah	48	30	1500	10	30	23	M6	442	370	88
LFP-48V40Ah	48	40	2000	20	40	30	M6	442	430	88
LFP-48V50Ah	48	50	2500	20	50	33	M6	442	440	135
LFP-48V70Ah	48	70	3500	20	50	38	M6	442	440	135
LFP-48V75Ah	48	75	3750	30	75	40	M6	442	400	177
LFP-48V100Ah	48	100	5000	30	75	55	M6	442	520	205

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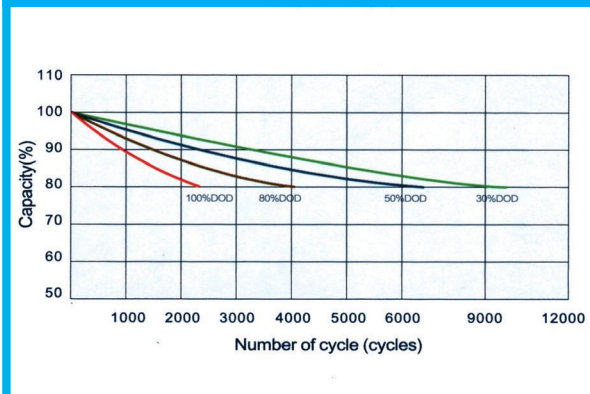
Charge and Discharge at 25°C, 0.2C



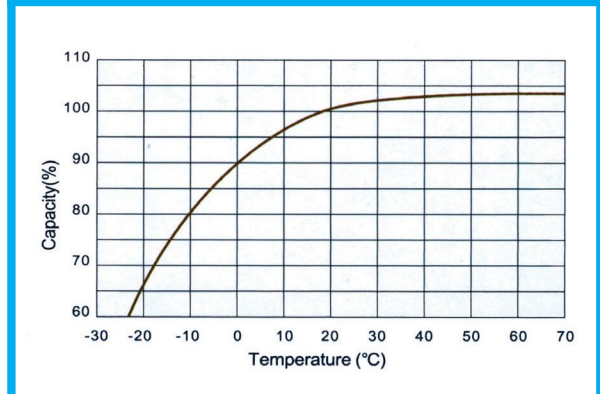
Discharge Performance at 25°C



Cycle life with DOD at 25°C, 0.2C



Temperature effects on capacity at 0.2C





ENERPOWER



ENERPOWER s.r.l.

Via Boccioni, 7 – 20090 MONZA (MB) – ITALY

Tel. ++39 039.833172 / 832152

Fax. ++39 039.2230441

e-mail: segreteria@enerpowersrl.com

www.enerpowersrl.com