



LDP Series Lithium Iron Phosphate Battery

Ideal LiFePO4 battery Solution For Energy Storage System

LDP Series Lithium Batteries LiFePO_4 Battery

Solution for Energy Storage System



Safer



Smarter



Simpler

EverExceed LDP series lithium iron phosphate batteries are **safer, smarter, simpler** alternative to lead-acid batteries in your marine, solar, RV, energy storage, floor cleaning machines, golf carts, e-scooters, fishing boats, and many other applications. The batteries have built-in smart BMS (battery management system) which provides complete protection and offer a drop-in solution for lead acid battery replacement. They can be used individually or assembled in series to create larger system.



**EverExceed robust
lithium iron phosphate
(LiFePO_4) battery
is your best power choice
for energy storage system!**

Application

- ◆ Wheel chair, sweeper, electric vehicle, robot;
- ◆ Solar/wind energy storage system;
- ◆ UPS backup power;
- ◆ Recreational vehicles;
- ◆ Golf carts;
- ◆ Solar street light;



RV & Trailer



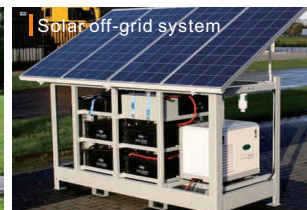
Fishing boat



Electric wheelchair



Golf cart



Solar off-grid system



Sweeper



Yacht



Solar street light



Features and Benefits

More reliable :

15 years design life

Longer life :

EverExceed LDP series lithium batteries provide up to 10 times longer life than lead-acid batteries, and they still provide 70% of the rated capacity after 3,000 cycles. Warranty is 3 years, 5 years optional.

Light weight:

EverExceed Lithium iron phosphate batteries have 3 times higher energy density compared to lead acid batteries, so the battery weight is reduced considerably. It has only approx.30-50% weight of equivalent lead acid battery, which making it easy handling, more robust.

High safety:

Built-in supersmart Battery Management System (BMS), guarantees the safe operation during whole service life. The BMS is built with perfect automatic protection against over-voltage, over-current, over-discharge, short-circuit.

More usable capacity:

Provide 100% of usable energy, regardless of the rate of discharge. so for longer trips you can discharge the battery more than the traditional lead acid, addressing Your Energy Anxiety.

Fast charging:

Provides up to 1C rate charging ability, 5 times more than of lead-acid, and can be fully charged in 1-2 hours, greatly improve the efficiency of use.

Temperature tolerant:

-20°C (-4°F) and +60°C (140°F).

Lithium batteries can handle a wide variety of conditions and are even 2.5X more efficient at low temperatures than lead-acid while being able to safely operate up to 140°F (60°C).

Cobalt-free:

Adopt lithium iron phosphate technology which is a totally environment friendly green energy storage solution.

Specification

Battery Model	Nominal Voltage	Rated Capacity @ 5-HR Rate (77°F/25°C)	Typical energy	Recommended charge current	Max charge current	Max continuous discharge current	Outline Dimension						Weight	Terminal
							Length		Width		Height			
	(V)	(Ah)	(Wh)	(A)	(A)	(A)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(kg)	
LDP 12-6	12.8	6	76	3	6	6	151	5.94	65	2.56	100	3.94	0.80	F2
LDP 12-8		8	102	4	8	8	151	5.94	65	2.56	100	3.94	1.00	F2
LDP 12-12		12	153	6	12	12	151	5.94	98	3.86	101	3.98	1.30	F2
LDP 12-18		18	230	9	18	18	181	7.13	77	3.03	167	6.57	1.80	M5
LDP 12-24		24	307	12	24	24	181	7.13	77	3.03	167	6.57	2.30	M5
LDP 12-30		30	384	15	30	30	165	6.50	125	4.92	175	6.89	3.60	M5
LDP 12-50		50	640	25	50	50	229	9.02	138	5.43	217	8.54	5.90	M6
LDP 12-100		100	1280	50	100	100	328	12.9	172	6.77	220	8.66	10.8	M8
LDP 12-120		120	1536	60	100	100	328	12.9	172	6.77	220	8.66	13.0	M8
LDP 12-150		150	1920	75	100	100	483	19.0	170	6.69	240	9.45	15.0	M8
LDP 12-200		200	2560	100	150	150	522	20.6	240	9.45	220	8.66	20.4	M8
LDP 12-300		300	3840	100	150	150	522	20.6	268	10.6	220	8.66	29.0	M8
LDP 12-400		400	5120	100	150	150	522	20.6	268	10.6	220	8.66	38.0	M8
LDP 24-12	25.6	12	307	6	12	12	165	6.50	125	4.92	175	6.89	2.90	M5
LDP 24-24		24	614	12	24	24	197	7.76	165	6.50	170	6.69	5.80	M6
LDP 24-30		30	768	15	30	30	229	9.02	138	5.43	217	8.54	7.40	M6
LDP 24-50		50	1280	50	50	50	328	12.9	172	6.77	220	8.66	11.0	M8
LDP 24-100		100	2560	50	100	100	522	20.6	240	9.45	220	8.66	21.0	M8
LDP 24-120		120	3072	60	100	100	522	20.6	268	10.6	220	8.66	26.0	M8
LDP 24-150		150	3840	75	100	100	522	20.6	268	10.6	220	8.66	30.0	M8
LDP 24-200		200	5120	100	150	150	522	20.6	268	10.6	220	8.66	38.6	M8
Operating Conditions														
Charging temperature							(0°C ~ 50°C)							
Discharge temperature							(-20°C ~ 60°C)							
Storage temperature							(0°C ~ 40°C)							

Why choose EverExceed LiFePO4 batteries?

Perfect replacement of lead acid batteries

Safer

- Adopt tier 1 & grade A LFP battery cells;
- Excellent deep cycle ability: ≥ 6000 cycles;
- 15+ years design life, 5 years warranty(optional); UL2054, CE, RoHS, UN38.3, etc.

Smarter

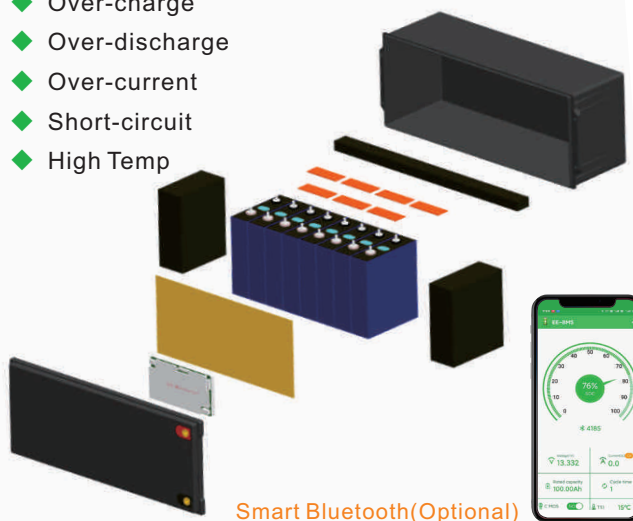
- Adopt high-end IC and MOSFET;
- Built-in smart BMS with multiple protections;
- Supports Bluetooth monitoring(Optional);
- Flexible deployment: up to 4 packs in parallel or 4 in series.

Simpler

- Drop-in replacement for lead acid batteries;
- Lighter weight, up to 70% weight saving;
- Fast charging: 90% within 1~1.5 hours;
- Easy operation & maintenance free.

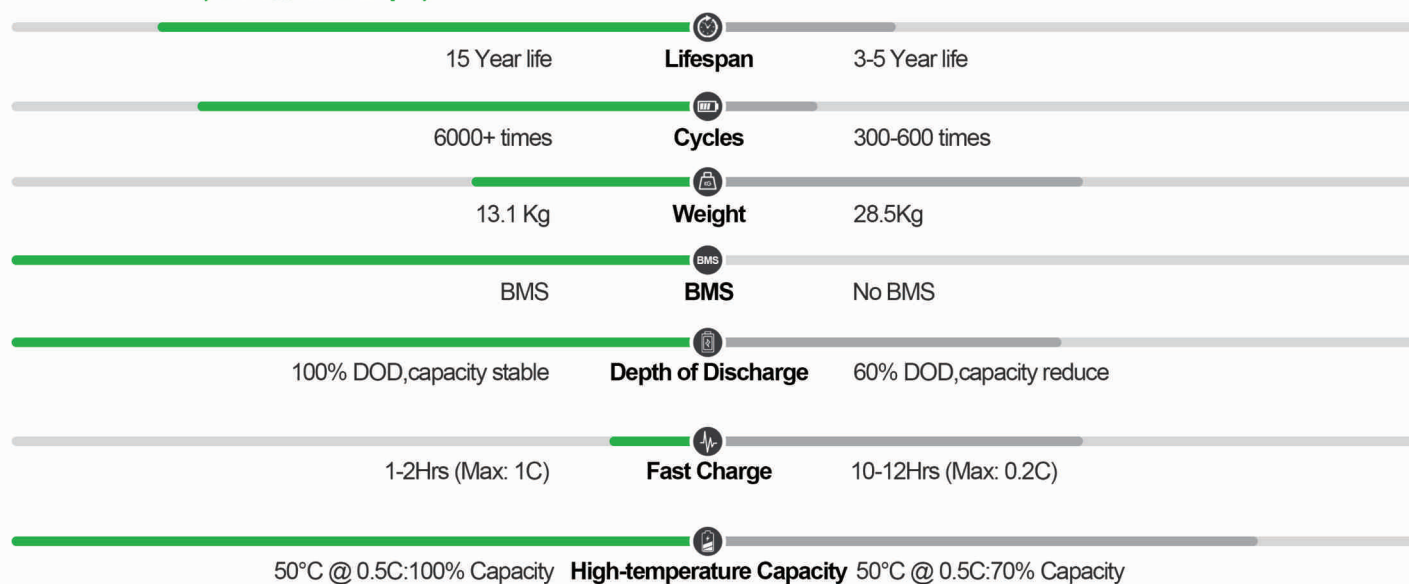
Superior BMS & Multi-protection

- ◆ Over-charge
- ◆ Over-discharge
- ◆ Over-current
- ◆ Short-circuit
- ◆ High Temp



Battery Comparison

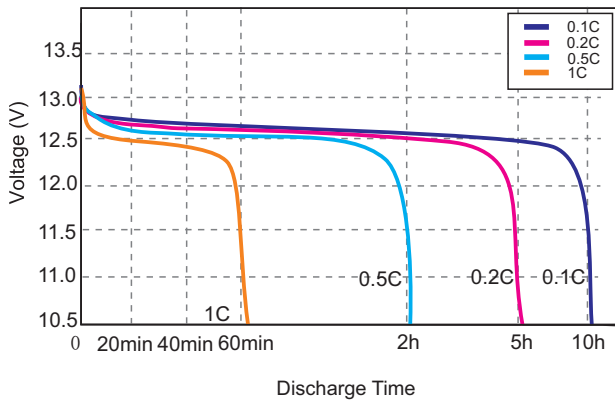
(12V 100Ah Example)



Performance Curve

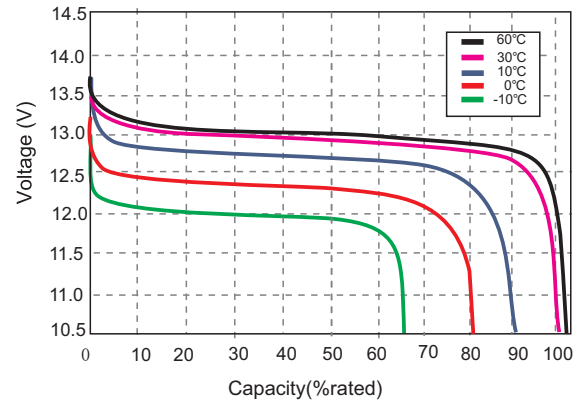
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



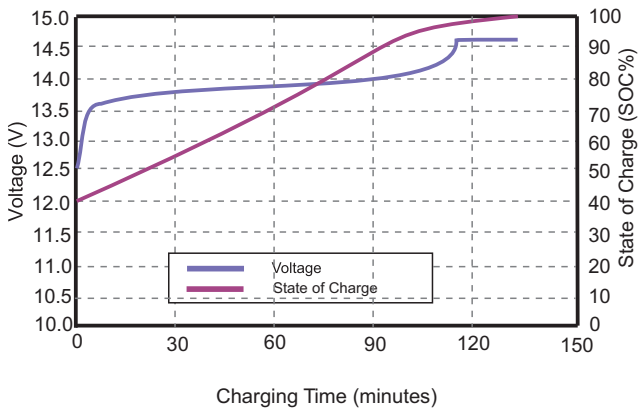
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



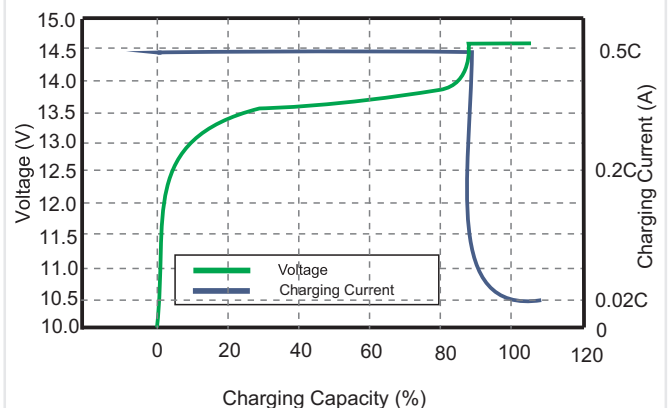
State of Charge Curve

State of Charge Curve @0.5C 25°C



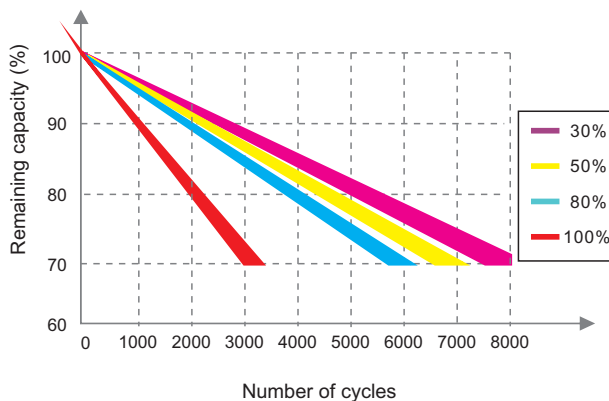
Charging Characteristics

Charging Characteristics @0.5C 25°C



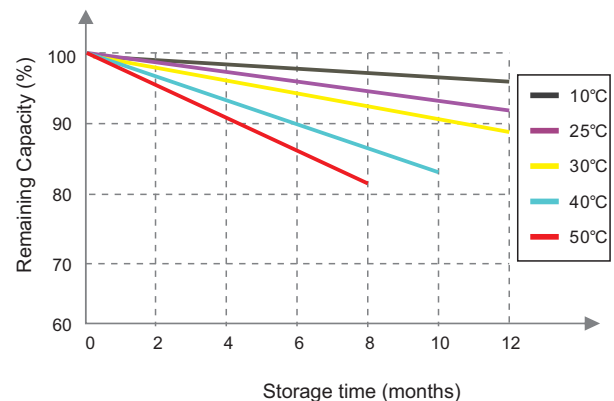
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @0.2C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



EverExceed[®]

power your applications



EverExceed | Empower, Energize, Exceed the Energy you Expect forever.



Headquarter:

Shenzhen EverExceed Industrial Co., Ltd

📍 Section A, Floor 19, Senhainuo Kechuang Building,
DeZhengRoad No.5, Shilong Community, Shiyan,
Bao'an District, Shenzhen, China.

🌐 www.everexceed.com/www.everexceedcorp.com

✉ marketing@everexceed.com

Branch Company:

EverExceed International Company Limited (HK)

📍 19H Maxgrand Plaza No3 Tai Yau St San PO Kong KLN Hongkong

✉ info@everexceed.com

EverExceed International (UK) Limited

📍 63-66 HATTON GARDEN FIFTH FLOOR, SUITE23 LONGDON
UNITED KINGDOM

✉ Europe@everexceed.com