EverExceed®
power your applications

LDP 12-85

(12.8V 85Ah)

lithium iron phosphate (LiFePO4) battery

Your best power choice for energy storage system!

EverExceed LiFePO4 solutions are more advanced, highly efficient and has many advantages over the traditional Lead Acid technology.
Here introducing popular LDP 12-85 battery of EverExceed which is high demanding among different industry users for its most advanced features.

Application

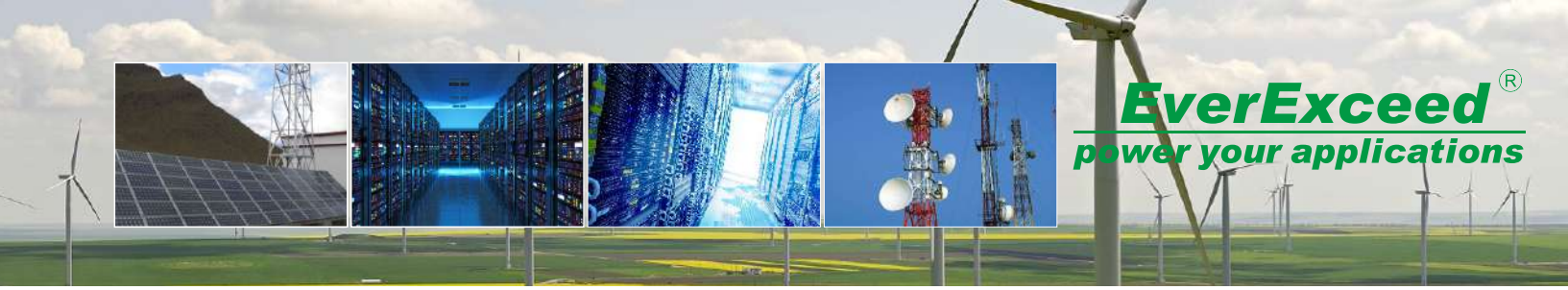
- Wheel chair, sweeper, electric vehicle, robot
- Solar/wind energy storage system
- UPS Backup power
- Telecommunication
- Medical equipment
- Solar Street light

Advantage summary

- Direct Lead Acid Battery (AGM/GEL) replacement for 85AH;
- Faster charge, 1 hour of charging can provide up to 90% charge (Optional);
- High energy density and conversion efficiency;
- Environmental Friendly, without any heavy metals;
- High cycle times and longer service life of >3000 cycles @100% DOD;
- Great high temperature performance;
- Safety in use: Advanced intelligent BMS inside, No explosion, No fire;
- No maintenance required through out the lifetime;
- Great power saver;
- Superior DOD (100%) over lead acid batteries;
- No acid splash and carbon mono-oxide emission so no need expensive battery maintenance room;
- The integrated BMS can support Bluetooth connectivity with dedicated user friendly app to ease your operation and monitoring (optional);





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ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	84 Ah
Energy	1075 Wh
Resistance	≤50 mΩ
Self Discharge	<1.5% per Month
Series connection	4 Units max.
Parallel connection	4 Units max.

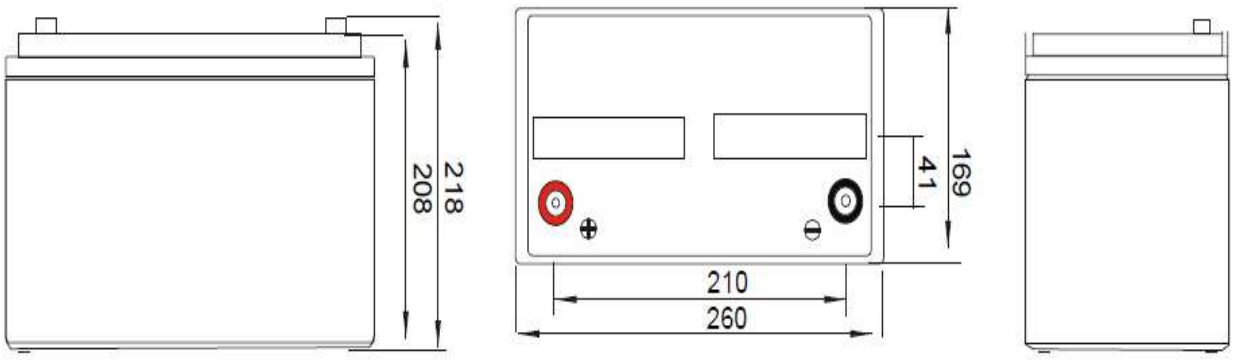
CHARGE SPECIFICATIONS	
Recommended Charge Current	42 A
Maximum Charge Current	84 A
Recommended Charge Voltage	14.2 V-14.6 V
BMS Charge Voltage Cut-Off	14.6 V (3.65 ±0.5 vpc) (1.1 ±0.4 s)
Reconnect Voltage	14.4 V (3.6 ±0.05 vpc)
Charging method	CC-CV

DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	84 A
Peak Discharge Current	150 A (≤2S)
Recommended Low Voltage Disconnect	11 V (2.75 vpc)
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (20 ±6 ms)
Reconnect Voltage	10 V (2.5 ±0.05 vpc)
Short Circuit Protection	200-600 μs

TEMPERATURE SPECIFICATIONS	
Discharge Temperature	- 4 °F to 140 °F (-20°C to 60 °C)
Charge Temperature	32 °F to 122 °F (0 °C to 50 °C)
Recommend Storage Temperature	23°F to 95 °F (-5°C to 35 °C)

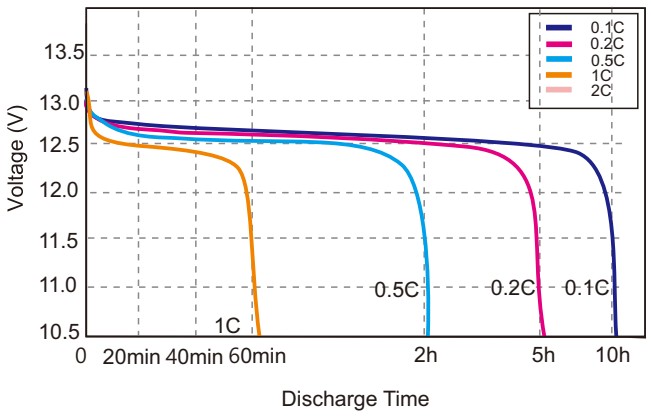
MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	10.2 x 6.7 x 8.5 "
	260 x 169 x 215 mm
Weight	10.2 Kg
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP55

DIMENSIONAL SPECIFICATIONS

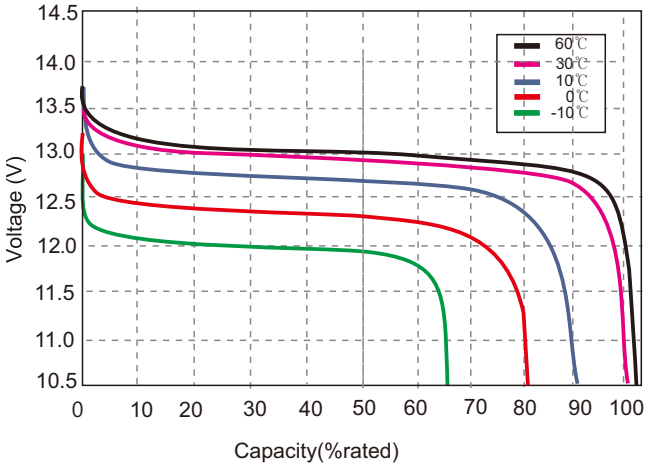


Performance curve

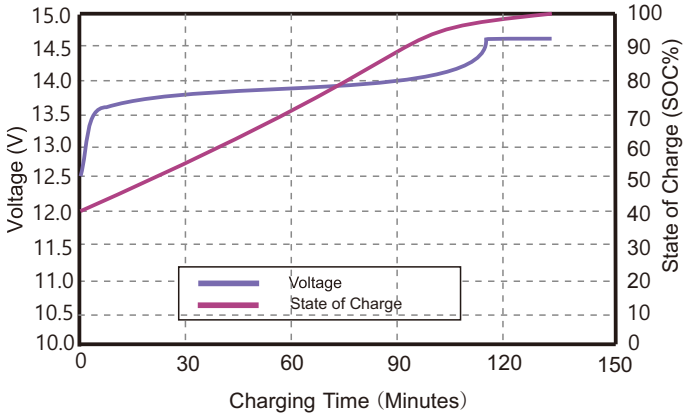
Different Rate Discharge Curve @25°C



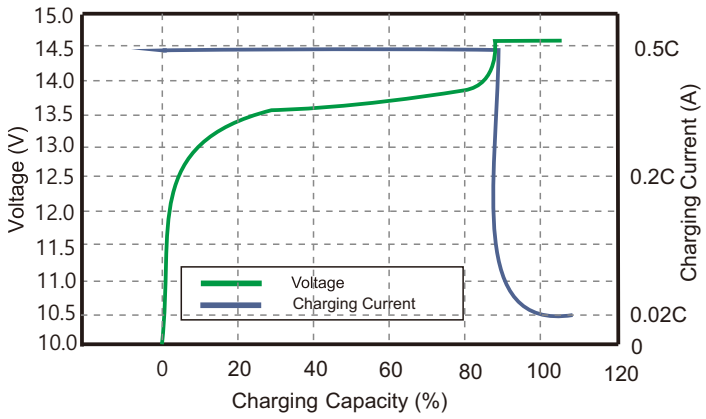
Different Temperature Discharge Curve @0.5C



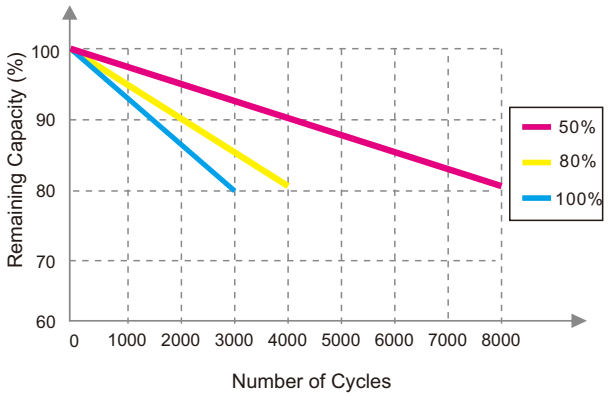
State of Charge Curve @0.5C 25°C



Charging Characteristics @0.5C 25°C



Different DOD Discharge Cycle life Curve @0.2C 25°C



Different Temperature Self Discharge Curve