LFP12-100(12.8V100Ah)

Enerpower Provides Safe and Efficient LFP Battery Solutions

LFP series adopt best value LiFePO4 cells, with the BMS system independently designed IP65 protection, support series and parallel use, is an ideal choice for outdoor, small energy energy storage, marine and other fields.

Features

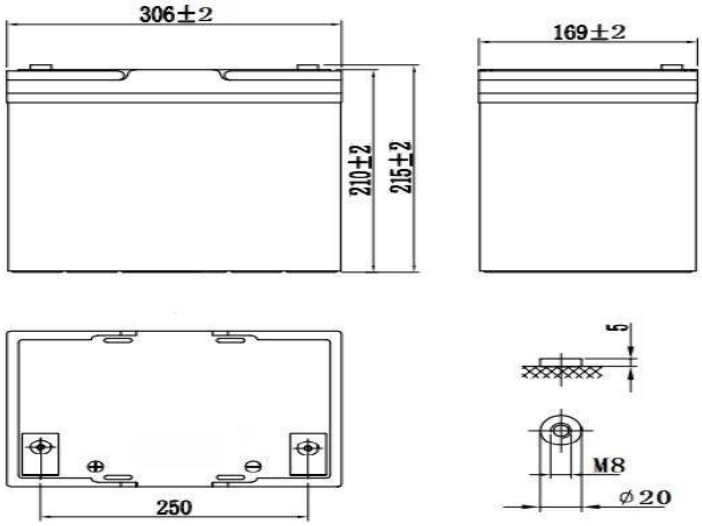
. Safest Lithium Battery Technology
. Lighter Weight
. Eco-friendly
. Longer Life
. Multiple Safety Protection
. Intelligent Balancing Function
. 20 Years Designed Service Life



Performance

Cell	Square LFP 50Ah	Rated Charge Current	50A	Rated Discharge Current	50A
Terminal	M8	Max. Charge Current	100A	Max. Discharge Current	100A
IP Grade	IP65	Rated Charge Voltage	13.6~13.8V	Rated Discharge Cut-off Voltage	11.2V
Self Discharge	<=2%/Month	Charge Cut-off Voltage	14.6V	Min. Discharge Cut-off Voltage	>10V
Cycle Life	3000times(100%DOD,1C/1C)	Balancing Voltage	>13.6V	Short Circuit Current	Approx.1000A

Size



Compliance

Certifications	Cell	CE/UN38.3/UL1973
	Battery	CE/UN38.3/IEC62619
Transport Appraisal	UN3480,CLASS 9	

performance parameters

Capacity	100Ah(0.5C@25℃)
Nominal Voltage	12.8V
Energy	1280Wh
Weight	11.5kg
Dimensions	306*169*215 mm
Internal resistance	<15mΩ
Storage Temp	-5℃ to 35℃
Discharge Temp	-20℃ to 60℃
Charge Temp	0℃ to 45℃

Constant Current Discharge Data (Amperes @ 25°C)

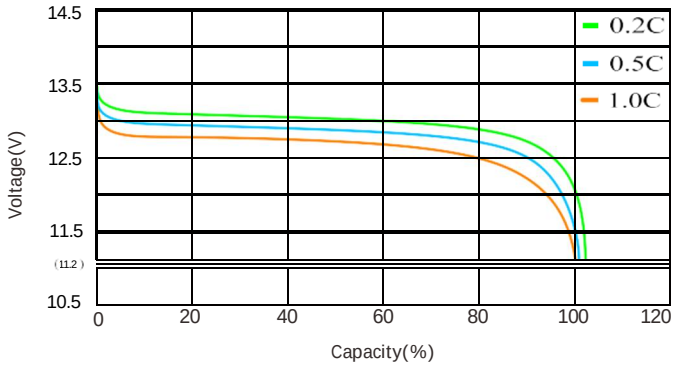
Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	100A	50A	33.3A	25A	20A	10A	5A

Constant Power Discharge Data (Watts @ 25°C)

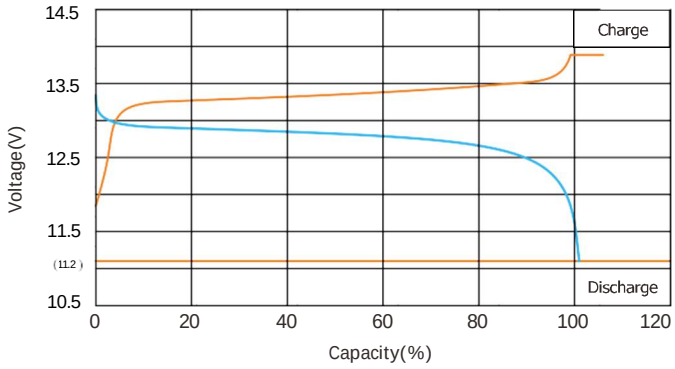
Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	1280W	640W	426W	320W	256W	128W	64W

Characteristics Curve

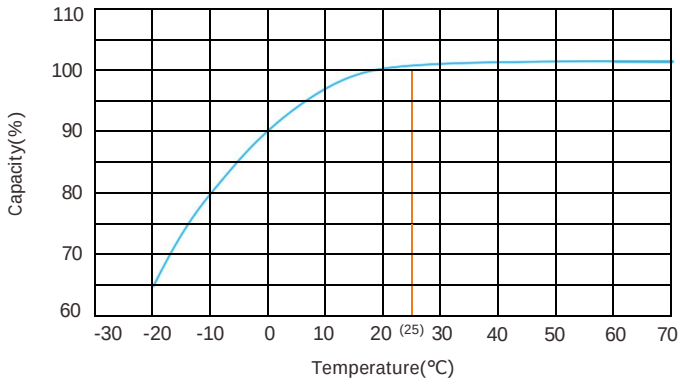
Discharge Performance at 25℃



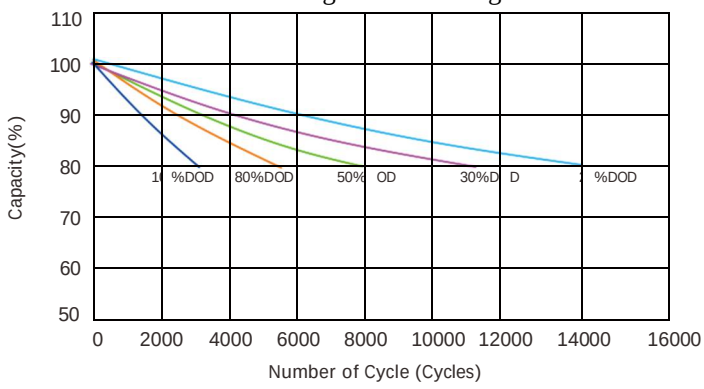
Charge and Discharge at 25℃,0.5C



Temperature Effects on Capacity at 0.5C



Cycle Life with DOD at 25 ℃
1C Discharge and 1C Charge



Cautions

1. Do NOT short circuit, crush or disassemble. Do NOT heat or incinerate. Do NOT immerse in any liquid.
2. Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.
3. Disconnect charging source prior to connecting or disconnecting battery terminals.
4. Do not dispose of batteries in a fire as they can explode.
5. Do not open, alter, or mutilate batteries. Released electrolyte is harmful to skin and eyes. It may be toxic.
6. Do not mix different types and brands of lithium-ion batteries.
7. Do not dispose in trash, follow local regulations and manufacturer's instruction.
8. See installation instructions before connecting to the supply.
9. The battery cabinet receives power from more than one source. Disconnection of all DC sources is required to De-energize this unit before installing or servicing. Wait 5 minutes before opening the unit.
10. Do not install on or over combustible surfaces.
11. Refer to manual before servicing.
12. Do not touch bare terminals.