ENERPOWER

LFP12-80(12.8V80Ah)

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.



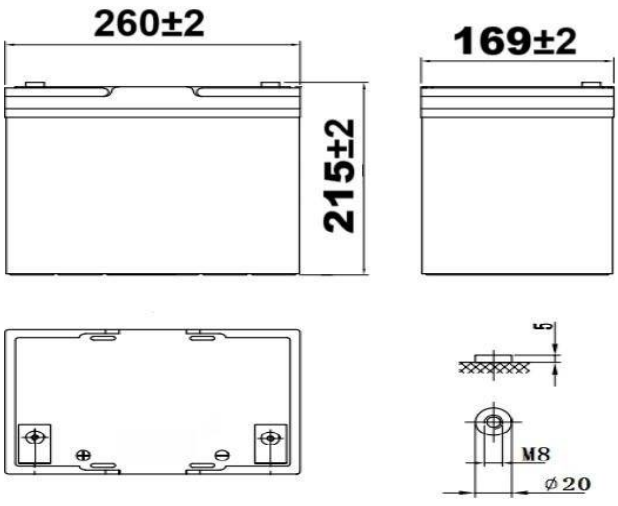
Features

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

Performance

Cell	LFP 40Ah	Rated Charge Current	40A	Rated Discharge Current	40A
Terminal	M8	Max. Charge Current	80A	Max. Discharge Current	80A
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.800A

Size



performance parameters

Capacity	80Ah(0.5C@25℃)
Nominal Voltage	12.8V
Energy	1024Wh
Weight	7.9kg
Dimensions	260*169*215 mm
Internal resistance	<20mΩ
Storage Temp	-5℃ to 35℃
Discharge Temp	-20℃ to 60℃
Charge Temp	0℃ to 45℃

Compliance

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

Constant Current Discharge Data (Amperes @ 25°C)

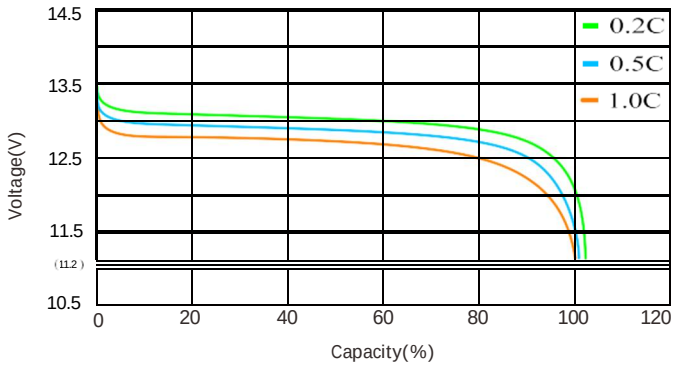
Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	80A	40A	26.6A	20A	16A	8.0A	4.0A

Constant Power Discharge Data (Watts @ 25°C)

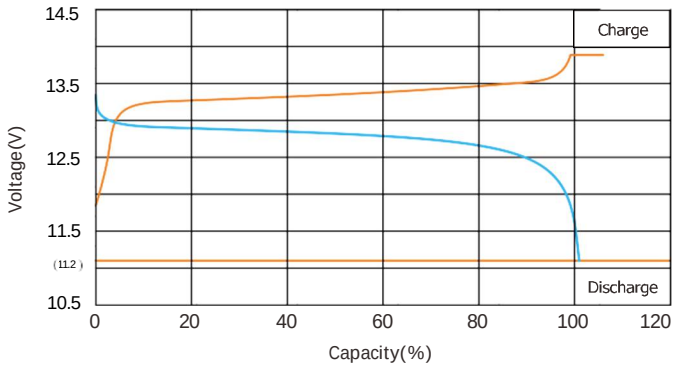
Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	1024W	512W	340W	256W	204.8W	102.4W	51.2W

Characteristics Curve

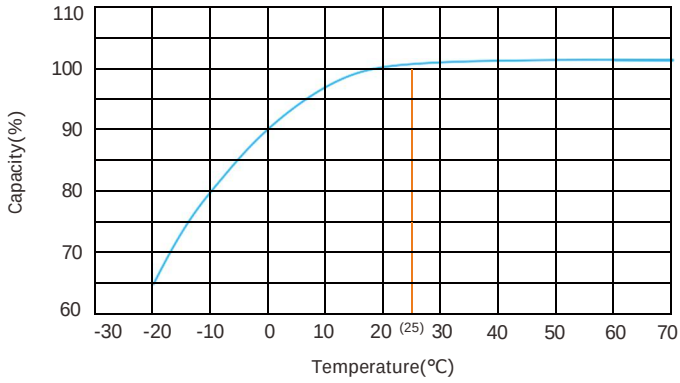
Discharge Performance at 25℃



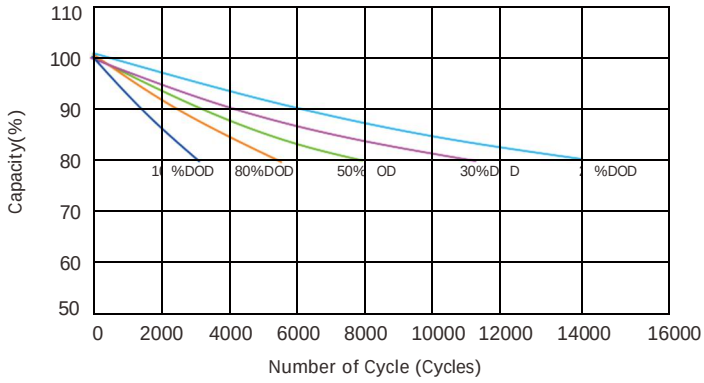
Charge and Discharge at 25℃,0.5C



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.