

Stackable Battery 48V 100AH(V3)



Technology

Model	51.2V 100AH-A/B
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Nominal Energy	5120Wh
Battery Type	LFP
Cycle Life	6000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	15 units
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	43.2V
Standard Charge Current	50A
Maximum Charge Current	100A
Standard Discharge Current	50,A
Maximum Discharge Current	100A
Dimensions	525*435*180mm(A)
Weight	46kg(A)
Communication	CAN/RS485/RS232
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Natural Cooling
Protection	Built-in Smart BMS
IP Rating	IP30
Warranty	5 Years
Certification	MSDS,UN38.3,CE-EMC,IEC62619

FEATURES:

- BMS Protection**
 Overcharge/Over-discharge Protection, Charge/Discharge Over-current Protection, Short-Circuit Protection, Battery Voltage Self-Balancing, High and Low Discharge Cut-off.
- Long Lifespan**
 Can be cycled up to 6000 times, with a lifespan of up to 20 years.
- High Capacity and Lightweight**
 Compact size and easy to move, making it an ideal choice for indoor power supply.
- Wide Range of Applications**
 Suitable for off-grid or hybrid systems.
- Smart Monitoring**
 Easily monitor your battery's status through the mobile app, which supports both Bluetooth and WiFi connections. Stay informed on your battery's health and performance in real-time.
- Easy Installation**
 Supports floor-standing, stacked, racked mounted or wall-mounted installation.
- Multi-Brand Compatibility**
 Compatible with multiple inverter protocols from various brands, and can communicate directly with computers.
- Capacity Expansion**
 Up to 32 units can be connected in parallel, expandable to 163.84kWh.

Max Connected
IN Parallel
32 Units

Max Connected
IN Series
1 Units

Unit Dimensions



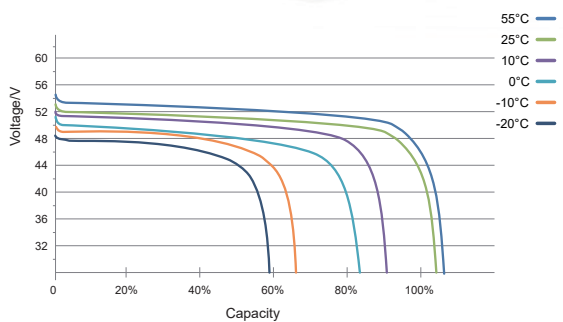
Mechanical

Length	20.67in / 525mm
Width	17.13in / 435mm
Height	7.09in / 180mm
Weight	101.41lbs / 46kg
Terminals	M8 insert

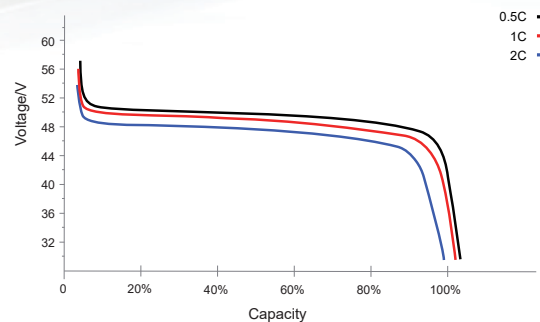
Materials

Case and Cover	METAL
Color	BLACK

Discharge Characteristics At Various Temperatures



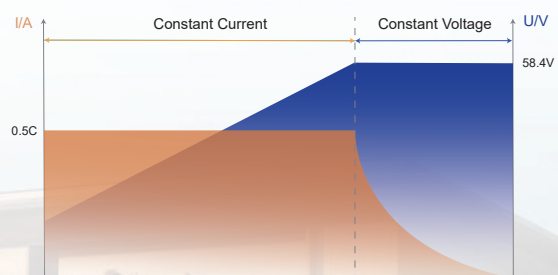
Discharge Characteristics At Various Rates



Charge & Discharge Voltage Characteristics



LiFePO4 Battery Charging Logic @0.5C



PLEASE NOTE

- ★ Lithium batteries ship under Class 9 Dangerous Goods PI 965 Section IA. Please contact your carrier company to determine their requirements for shipping. MSDS Sheets are available upon request.
- ★ Float charging is not applicable to lithium iron phosphate batteries, long-term float charging will accelerate battery aging or damage. If you have to set the float voltage for MPPT/PWM charge controller in solar system, we suggest to set it to (12V Battery)13.2V-13.6V, (24V Battery)26.4V-27.2V, (36V Battery)39.6V-40.8V, (48V Battery)52.8V-54.4V.