

100AH 48V Lithium Battery

Technology

FEATURES:

- Highest safety, battery is made from LiFePO₄ chemistry and comply with highest international safety and transport standard.
- Modular and flexible, support up to 15 batteries connect together to expand the system energy.
- Build-in pre-charge circuit to avoid rush current when connecting with different inverter/chargers.
- Automatic dynamic addressing function when connected multiple batteries together.
- Rapid shut down function for North American market.
- Support a maximum of 99% DOD under off-grid and back-up application
- Built in BMS provide warning and protection functions including over-discharged, over-charged, over-current, short-circuit and high/low temperature.
- LiFePO₄ as cathode material and automatic balancing function to meet long cycle life
- Compact size and light weight for easy installation and maintenance.
- CAN/RS485 port for external communication and upgrade the BMS firmware.

Lithium Iron Phosphate (LiFePO₄)

Nominal Voltage	51.2 V
Rated Capacity	100Ah
Absorption Voltage	56.8 to 58.4 V
Float Voltage	56.0 to 56.8 V
Equalize Voltage (if applicable)	56.8 to 58.4 V (same as absorption)
Absorption Time	60 to 120 minutes
Temperature Compensation	No
Charge Cut-off Voltage	58.4 V
Discharge Cut-off Voltage	40 V
Recommended Charge Current	50A
Recommended Discharge Current	50A
Maximum Continuous Charge Current	100A
Maximum Continuous Discharge Current	100A
Peak Discharge Current	120A
Bluetooth connection	Yes
Self Heating	No
IP Standard	IP30
Communication	CAN/RS485/RS232
Switch	Yes
BMS Protection	Overcurrent Short circuit High/Low temperature
Internal Resistance	≤30mΩ
BMS Leakage Current	≤3mA
Operating Temperature Charge	32°F (0°C) to 131°F (55°C)
Operating Temperature Discharge	-4°F (-20°C) to 131°F (55°C)
Storage Temperature 1 week	-4°F (-20°C) to 149°F (65°C)
Storage Temperature 1 month	-4°F (-20°C) to 113°F (40°C)
Storage Temperature 1 year	-4°F (-20°C) to 77°F (25°C)
Humidity Operating:	5% to 90 % RH
Humidity Storage:	35% to 85% RH
Certifications UN 38.3; CE	
Cycle Life	6000 cycles
Product Lifespan	10-year (Prorated)
Maximum Parallel	
15 units	

Unit Dimensions



Mechanical

Length	21.71in / 552mm
Width	19.02in / 483mm
Height	5.24in / 133mm
Weight	94.8lbs / 43kg
Terminals	M8 insert

Materials

Case and Cover	METAL
Color	BLACK

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