

Powerwall 51.2V 200AH LiFePO4 Battery with Smart BMS

ELECTRICAL SPECIFICATION

Nominal Voltage	51.2V
Nominal Capacity	200AH
Capacity @1.4A	5HR
Energy	10240Wh
Resistance	≤20mΩ
Efficiency	99%
Self Discharge	< 3% per month
Max. Modules in Series	/

DISCHARGE SPECIFICATION

Cont. Discharge	100A
Max. Cont. Discharge Current	100A
Peak Discharge Current	200A(3s)
BMS Discharge Current	300A±100A(10mS)
Recommend Cut-off voltage	38.4V
BMS Discharge Cut-off	36.8V
Short Circuit Protection	200-600 μs

CHARGE SPECIFICATION

Recommended Charge Current	20-100A
Max. Charge Current	80A
Peak Charge Current	100A(30s)
BMS Charge Voltage Cut-off	58.4V (1±0.2S)
Reconnect Voltage	57.3V-58.4V
Balancing Current	/
Balancing Voltage	/
Charge Current (-20 to -10 °C)	≤0.05 C



MECHANICAL SPECIFICATION

Dimensions (L*W*H)	730*145*465mm
Weight	80KG±0.5KG
Terminal Type	Screw Stud
Case Material	Metal Case
Enclosure Protection	IP55
Cell Type:	16S1P
Total Cell	16 PIECES

TEMPERATURE SPECIFICATION

Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 45°C
Storage Temperature	-20°C to 40°C
Peak High Temperature	80°C
Reconnect Temperature	50°C

OTHER CUSTOMISE SERVICE

SMARTFUCTION:RS485/RS232/CAN/BLUETOOTH
CHARGE/DISCHARGE CURRENT, BATTERY SIZE, OEM

FEATURE & BENEFITS

- ◆ HIGH CYCLE LIFE: > 6000 times for effectively lower cost of ownership
- ◆ BATTERY PACK BUILT-IN BMS Protection: Battery Management System are incorporated to protect battery from OVER CHARGING, OVER DISCHARGING, SHORT CIRCUIT
- ◆ LIGHT WEIGHT: Dry power lithium batteries has higher energy density, wh/kg also being up to 1/3 of SLA battery
- ◆ WIDE OPERATING TEMPERATURE RANGE: Suitable for users in a wider range of application where ambient temperature is unusually high: up to +60°C
- ◆ STEADY OUTPUT VOLTAGE, VIBRATION & SHOCK RESISTANT, NO MEMORY EFFECT, PRESSURE RESISTANT CELLS

SUITABLE APPLICATIONS

- ◆ Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries.
- ◆ LiFePO4 in 4S=12.8V and 8S=25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types
- ◆ Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications.

CAUTIONS

- ◆ Do NOT expose the battery to water.
- ◆ Do NOT expose the battery to fire & high temperature.
- ◆ Do NOT short circuit, crush or disassemble.
- ◆ Only use LiFePO4 charger.
- ◆ Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.