



Powerwall 51.2V 200AH 10 KWH LiFePO4 Battery Smart BMS

BATTERY CELLS: BYD BRAND

ELECTRICAL SPECIFICATION

Nominal Voltage	51.2V
Nominal Capacity	200AH
Capacity @40A	5HR
Energy	10240Wh (10 kWh)
Resistance	≤20mΩ
Efficiency	99%
Self Discharge	< 3% per month
Max. Modules in Series	/
Max. Modules in Parallel	5 (50 kWh)

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	100A
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	IP65
Cell Type: Prismatic 200Ah	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 & BENIFITS

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.