



## Stackable 51.2V 10KWH LiFePO4 Battery with Smart BMS

### BATTERY CELLS: BYD BRAND

#### ELECTRICAL SPECIFICATION

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

#### SINGLE MODULE SPECIFICATION

#### DISCHARGE SPECIFICATION

Cont. Discharge	100A
Max. Cont. Discharge Current	200A
Peak Discharge Current	400A(3s)
BMS Discharge Current	500A±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	200A(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 )	690*590*280mm
Weight	93KG±2KG
Terminal Type	Screw Stud M8
Case Material	Metal Case
Enclosure Protection	IP65
Modules Cell: 3.2V 200AH	16S1P
Module: 51.2V 200AH	1 Set

#### 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

## STACKABLE LiFePO4 BATTERY CABINET SOLUTION



**10Kwh / 20Kwh / 30Kwh / 50Kwh  
Household Energy Storage Battery Scheme**

- **LiFePO4 Battery**
- **6000 Times Deep Cycle Life**
- **Support Inverter Communication**
- **Indoor Mobility & Space Saving**

**LFP-51200-10**      **LFP-51200-20**      **LFP-51200-30**      **LFP-51200-50**

## SUITABLE APPLICATIONS

Lithium Iron Phosphate(LiFePO4) Battery Pack be used grade A LiFePO4 Battery cells lifespan up to 15 years

Suitable for most of solar inverters and MPPT solar controllers

Suitable applications for home/ commercial solar energy storage system, easy to install and operate

## 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 LiFePO<sub>4</sub> charger

Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.