

## Lithium Battery Series

## LFP12200(12V200AH)



Lithium Series Batteries provide superior performance, capacities and reliability. Using state of high power cell technology the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial, industrial, residential, and private applications. The maintenance free construction and advanced design features makes the lithium Series the definitive choice for a wide variety of markets; Solar and Renewable Energy Storage; Electric Vehicle and Golf cart; Industrial equipment, Floor Machines, Forklifts, Aerial lifts, and Robotics; Marine, RV, and no-idle solutions; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.





























#### **BATTERY SPECIFICATIONS**

Battery Type - Chemistry	LiFePO <sub>4</sub>	Internal Resistance - Milliohms	< 4m Ω
Nominal Voltage	12.8 V	Efficiency - round trip	> 99.5%
Amp Hour Capacity	200 AH	Self Discharge per Month	< 3%
Energy Density	2560 Wh	Max 4 - series connections	<b>12-48</b> V
Dimensions (L*W*H)	510*185*240 mm	Parallel connections	No Limited
Box dimensions (L *W*H)	445*165*240 mm	Case IP Rating	IP65
Weight	18.3 KG	Design Life	20 Years
Terminal Type	M8	Cycle Life (1C, 25°C@80%DOD)	) >4000 cycles
Terminal Torque	12.4 NM	Cycle Life (0.2C, 25°C@80%DO	D) >6000 cycles
Case Material	ABS	,	,
BMS build-in	Yes	Discharge Temperature	( <b>−23 to 65)</b> °C
Recommend Charge Voltage	$14.2 \pm 0.20$ V	Charge Temperature	(−3 to 65)°C
Max Charge Voltage	$14.8 \pm 0.20 V$	Storage Temperature	(−20 to 45)°C
Recommend Charge current	40 A		
Max Charge Current	200 A	Bluetooth(APP)	Optional
Charge Current (0 to -10 $^{\circ}$ C)	<0.1C	LCD Screen	Optional
Charge Current (-20 to -10 $^{\circ}$ C)	<0.05C	Heating functions -20°C O	ptional By Charger
Recommend Discharging volta	ge 10.8±0.20V	Batteryself heating function (	Optional By Cell
Max Discharging Voltage	9.6 <u>+</u> 0.20V		
Max Discharge Current	200 A	Shipping Classification U	N3480, CLASS9

Pulse Discharge Current

CB /CE

Other Certifications

600A/3S



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#### **BMS SPECIFICATIONS**

BMS Version: SMTK

BMS Protections Range: Over (Voltage, Current, Temperature management) and cell balance

Over Charging Cell protection  $>3.90\pm0.05V$  Delay 700-1500ms Over Charging Pack protection  $>15.6\pm0.20V$  Delay 700-1500ms Over Charging Current 1 -- Delay 2s

Over Charging Current 2 Delay 2s

Delay 2s

Over Charging Temp Protection 1 65±5°C Release 48±12°C Delay:5s

Over Discharging Cell protection  $<2.4\pm0.10$ V Delay 70-150ms Over Discharging Pack protection  $<9.6\pm0.40$ V Delay 70-150ms Over Discharging current 1 205 $\pm$ 2.5A Delay 170-410ms Over Discharging current 2 250 $\pm$ 2.5A Delay 170-410ms

Over Discharging Temp Protection 1 65±5°C Release 48±12°C Delay:5s

PCB Temp protection 100±5°C Release 70±15°C Delay: 5s

Cell Balance Start 3.60±0.05V
Cell Balance Current 60±5mA

Short circuit 2100A±200A Delay < 500us





