



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.



#### Applications



### BATTERY SPECIFICATIONS

Battery Type - Chemistry	LiFePO4	Internal Resistance - Milliohms	< 80 mΩ
Nominal Voltage	51.2 V	Efficiency - round trip	> 99.5 %
Amp Hour Capacity	180 AH	Self Discharge per Month	< 3 %
Energy Density	9216 Wh	Max parallel connections	16 pcs
Dimensions(LxWxH)	442*550*226 mm	Series connections	Not allowed
Weight	78 KGS	Case IP Rating	IP35
Terminal Type	M6	DesignLife	20 Years
Terminal Torque	8.5 NM	Cycle Life (1C, 25°C@80%DOD)	>4000 cycles
Case Material	ABS	Cycle Life (0.2C, 25°C@80%DOD)	>6000 cycles
BMS build-in	Yes	Discharge Temperature	(-23 to 65) °C
Recommend Charge Voltage	56.5 ±0.20V	Charge Temperature	(-3 to 65) °C
Max Charge Voltage	57 ±0.20V	Storage Temperature	(-20 to 45C) °C
Recommend Charge current	50 A	Bluetooth(APP)	Optional
Max Charge Current	100 A	LCD Screen	Optional
Charge Current (0 to -10°C)	<0.1 C	Heating functions -20°C	Optional By Charger
Charge Current (-20 to -10°C)	<0.05 C	Batteryself heating function	Optional BY Cell
Recommend Discharging voltage	45 ±0.20V	Shipping Classification	UN3480, CLASS 9
Max Discharging Voltage	43.5 ±0.20V	Other Certifications	CB /CE
Max Discharge Current	100 A		
Pulse Discharge Current	160 A±3S		

### Packing List

No	Item	Specification	Number
1	LiFePO4 Battery PACK	LFP51.2180 51.2V180Ah battery PACK	1 PCS
2	Power cable	1m Red +1m Black	2 PCS
3	communication cable	1M Internet cable	1 PCS
4	LCD Screen (Optional)	Integrated on the battery	1 PCS