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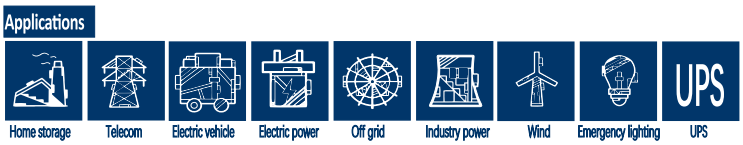
THE POWER

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	$LiFePO_4$
Nominal Voltage	12.8 V
Amp Hour Capacity	100 AH
Energy Density	1280 Wh
Dimensions (L*W*H)	258*166*215 mm
Weight	9.8 KG
Terminal Type	M6
Terminal Torque	8.5 NM
Case Material	ABS
BMS build-in	Yes
Recommend Charge Voltage	14.2±0.20V
Max Charge Voltage	14.8±0.20V
Recommend Charge current	20 A
Max Charge Current	100 A
Charge Current (0 to -10℃)	<0.1C
Charge Current (-20 to -10℃)	<0.05C
Recommend Discharging voltage	10.8±0.20V
Max Discharging Voltage	8.8±0.20V
Max Discharge Current	100 A
Pulse Discharge Current	300A/3S

Internal Resistance - Milliohms	< 6mΩ
Efficiency - round trip	> 99.5%
Self Discharge per Month	< 3%
Max 4 - series connections	12-48V
Parallel connections	No Limited
Case IP Rating	IP65
Design Life	20 Years
Cycle Life(1C, 25℃@80%DOD)	>4000 cycles
Cycle Life(0.2C, 25℃@80%DOD)	>6000 cycles
Discharge Temperature	(-23 to 65)℃
Charge Temperature	(-3 to 65)℃
Storage Temperature	(-20 to 45)℃
Bluetooth(APP)	Optional
LCD Screen	Optional
Heating functions -20°C	Optional By Charger
Batteryself heating function	Optional By Cell
Shipping Classification	UN3480, CLASS9
Other Certifications	CB /CE

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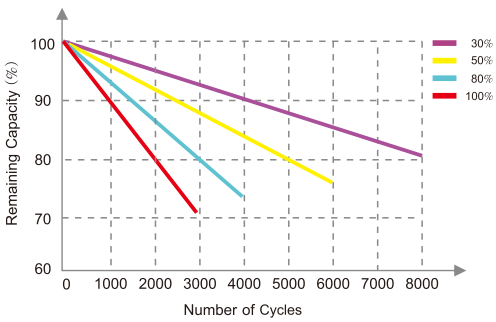
BMS SPECIFICATIONS

BMS Version: SMTK

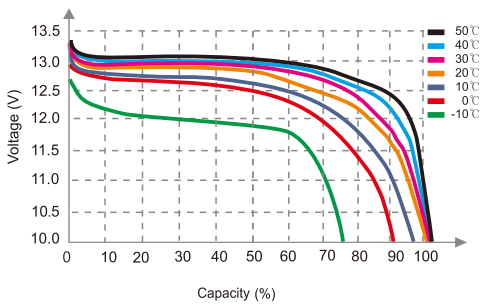
BMS Protections Range: Over (Voltage, Current, Temperature management) and cell balance

Over Charging Cell protection	>3.75±0.05V	Delay 2s
Over Charging Pack protection	>14.8±0.20V	Delay 2s
Over Charging Current 1	130±10A	Delay 2s
Over Charging Current 2	--	Delay 5mS-60mS
Over Charging Temp Protection 1	0±3℃ or 60±3℃	Release 5±3℃ or 40±3℃ Delay:2s
Over Discharging Cell protection	<2.30±0.10V	Delay 2s
Over Discharging Pack protection	<9.20±0.40V	Delay 160ms
Over Discharging current 1	200±20A	Delay 5s
Over Discharging current 2	500±30A	Delay 160ms
Over Discharging Temp Protection 1	-20±3℃ or 70±3℃	Release -10±3℃ or 50±3℃ Delay:2S
PCB Temp protection	95±3℃	Release 60±3℃ Delay: 2s
Cell Balance Start	3.30±0.10V	
Cell Balance Current	50±5mA	
Short circuit	750A±30A	Delay < 400us

Different DOD Discharge Cycle Life Curve 1C 25C



Different Temperature Discharge Curve(0.2C)



State of Charge Curve(0.5C, 25℃)