



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

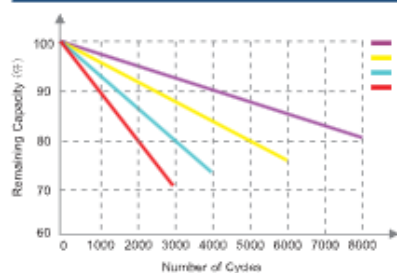
Battery Type - Chemistry	LiFePO4	Internal Resistance - Milliohms	< 80 mΩ
Nominal Voltage	25.6 V	Efficiency - round trip	> 99.5 %
Amp Hour Capacity	200 AH	Self Discharge per Month	< 3 %
Energy Density	5120 Wh	Max parallel connections	4 pcs
Dimensions(LxWxH)	520*269*208 mm	Serial connections	51.2 V
Weight	43 KGS	Case IP Rating	IP56
Terminal Type	M8	DesignLife	20 Years
Terminal Torque	12.4 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	28.5 ±0.20V	Charge Temperature	(-3 to 65) °C
Max Charge Voltage	29.5 ±0.20V	Storage Temperature	(-20 to 45C) °C
Recommend Charge current	100 A		
Max Charge Current	200 A	Bluetooth(APP)	Optional
Charge Current (0 to -10°C)	<0.1 C	LCD Screen	Optional
Charge Current (-20 to -10°C)	<0.05 C	Heating functions -20°C	Optional By Charger
Recommend Discharging voltage	22.5 ±0.20V	Batteryself heating function	Optional BY Cell
Max Discharging Voltage	19.2 ±0.20V		
Max Discharge Current	200 A	Shipping Classification	UN3480, CLASS 9
Pulse Discharge Current	250 A±3S	Other Certifications	CB /CE

BMS SPECIFICATIONS

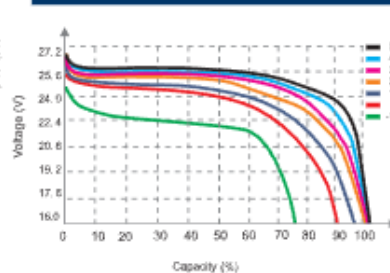
BMS Version :LL

BMS Protections Range:		Over (Voltage, Current, Temperaturemanagement) and cell balance			
Over Charging Cell protection	>3.80	$\pm 0.05V$	Delay	2 $\pm 0.5S$	
Over Charging Pack Warning	>29.6	$\pm 0.20V$			
Over Charging Pack protection	>30	$\pm 0.20V$	Delay	2 $\pm 0.5S$	
Over Charging Current Warning	>200	$\pm 2.0A$			
Over Charging Current protection 1	>200 <220	$\pm 2.5A$	Delay	15 $\pm 1.0S$	
Over Charging Current protection 2	≥ 220	$\pm 2.5A$	Delay	3 $\pm 1.0S$	
OverCharging Temp Protection 1	<-5 or >70	$\pm 3^{\circ}C$	Release	>0 or < 60	$\pm 3^{\circ}C$ Delay:2 $\pm 0.5S$
Over Discharging Cell protection	<2.1	$\pm 0.05V$	Delay	2 $\pm 0.5S$	
Over Discharging Pack protection	<19.2	$\pm 0.20V$	Delay	2 $\pm 0.5S$	
Over Discharging current Warning	>205	$\pm 2.5A$			
Over Discharging current protection 1	>205 <250	$\pm 2.5A$	Delay	20 $\pm 1.0S$	
Over Discharging current protection 2	≥ 250	$\pm 2.5A$	Delay	3 $\pm 1.0S$	
Over Discharging Temp Protection 1	<-25 or >75	$\pm 3^{\circ}C$	Release	>-20 or < 70	$\pm 3^{\circ}C$
PCB Temp protection	>95	$\pm 3^{\circ}C$	Release	< 80	$\pm 3^{\circ}C$ Delay:2 $\pm 0.5S$
Cell Balance Start		3.5 $\pm 0.05V$	Cell voltage difference < 20mV		Passive balance
Balance Current		150 $\pm 10mA$			
Short circuit			Delay	0.1 $\pm 0.2ms$	
Power consumption	<300	μA	Switch-off mode	Storage & transportation	
	<500	μA	Sleep mode	Protection & stand-by	
	<15	mA	Operating mode	Operating	
	<28	mA	Operating mode	Low voltage to start Pre-charge	
Communication ports	Major CAN/RS485 optional for Bluetooth/Dryport/SNMP			Can be customized	
Temperature accuracy	± 2	$^{\circ}C$	Measuring range -40~100 $^{\circ}C$		
Voltage accuracy	± 15	mv	For cells and module		
Current accuracy	FSC	$\pm 5\%$	Measuring range -200~+200A		
SOC	$\pm 5\%$		Integral calculation		

Different DOD Discharge Cycle Life Curve 1C 25 $^{\circ}C$



Different Temperature Discharge Curve(0.2C)



State of Charge Curve(0.5C, 25 $^{\circ}C$)

