LiFePO4 Lithium Iron Phosphate Batteries 12V120AH

Model:SL4578A





The latest generation in maintenance free batteries is here! LiFePO4 batteries offer longer service life than traditional lead acid batteries, plus weigh less than HALF as much as SLA batteries. LiFePO4 also provide more usable life per cycle, allowing for longer run times by holding a higher voltage until capacity is almost exhausted. These batteries will also maintain 80-90% charge when in storage - far higher than their lead acid counterparts.

Each battery is fitted with an internal battery management system to provide safe charging and discharging at all times. This system provides internal short circuit, over temperature and under/over voltage cut off. Can be wired in series and/or parallel.





























BATTERY SPECIFICATIONS

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Battery Type - Chemistry	LiFePO4	Internal Resistance - Milliohms	< 50 mΩ	
Nominal Voltage	12.8 V	Efficiency - round trip	> 99.5 %	
Amp Hour Capacity	120 AH	Self Discharge per Month	< 3 %	
Energy Density	1536 Wh	Max - series connections	51.2 V	
Dimensions(LxWxH)	330*171*222 mm	Parallel connections	4PCS	
Weight	12.5 KGS	Case IP Rating	IP65	
Terminal Type	M8	DesignLife	20 Years	
Terminal Torque	16 NM	Cycle Life (1C, 25°C@80%DOD)	>4000 cycles	
Case Material	ABS	Cycle Life (0.2C, 25°C@80%DO[>6000 cycles	
BMS build-in	Yes			
		Discharge Temperature	(-23 to 65) °C	
Recommend Charge Voltage	14.8 ±0.20V	Charge Temperature	(-3 to 65) °C	
Max Charge Voltage	15.2 ±0.20V	Storage Temperature	(-20 to 45C) °C	
Recommend Charge current	30 A			
Max Charge Current	100 A	Bluetooth(APP)	Optional	
Charge Current (0 to -10°C)	<0.1 C	LCD Screen	Optional	
Charge Currrent (-20 to -10℃)	<0.05 C	Heating functions -20°C	Optional By Charge	
Recommend Discharging voltage	10.4 ±0.20V	Batteryself heating function	Optional BY Cell	
Max Discharging Voltage	$9.2 \pm 0.20 V$			
Max Discharge Current	120 A	Shipping Classification	JN3480, CLASS 9	
Pulse Discharge Current	420 A±15S	Other Certifications	CB /CE	

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BMS SPECIFICATIONS						BMS Version :JWZN	
BMS Protections Range:	Over (Voltage	, Current, Te	mperaturem	anagement)	and cell bala	nce	
Over Charging Cell protection	>3.85	±0.05V	Delay		2 ±0.5S		
Over Charging Pack protection	>15.4	±0.20V	Delay		2 ±0.5S		
Over Charging Current 1	>100	±2.0A	Delay		5 ±2.0S		
Over Charging Current 2	-	±2.5A	Delay	-	±1.0S		
OverCharging Temp Protection 1	<-0 or>65	±3°C	Release	>3 or < 60	±3°C	Delay:2±0.5S	
Over Discharging Cell protection	<2.3	±0.05V	Delay		2 ±0.5S		
Over Discharging Pack protection	<9.2	±0.20V	Delay		2 ±0.5S		
Over Discharging current 1	>420	±2.5A	Delay	1	5 ±2.0S		
Over Discharging current 2	>840	±2.5A	Delay		1 ±1.0S		
Over Discharging current 3		±2.5A	Delay		±1.0S		
Over Discharging Temp Protection 1	<-20 or>65	±3°C	Release	>-15 or < 60	0 ±3℃		
PCB Temp protection	>95	±3°C	Release	< 75	±3°C	Delay:2±0.5S	
Cell Balance Start	3.	6 ±0.05V					
Balance Current	3	6 ±20mA					
Short circuit			Delay	35	0 ±0.5ms		
Power consumption	<100	uA	Switch-off mode		Storage &	Storage & transportation	
	<100	uA	Sleep mode		Protection & stand-by		
	<15	mA	Operating mode		Operating		
	<28	mA	Operating mode		Low voltage to start Pre-charge		
Communication ports	Opitional for (CAN/Bluetoo	th/RS485/Dryport/SNMP		Can be customizeddevice		
Temperature accuracy	±2	°C	Measuring range -40~100°C				
Voltage accuracy	±3.5	mv	For cells and module				
Current accuracy	FSC	±5%	Measuring range -200~+200A				
SOC	±5%		Integral calculation				





