LiFePO4 Lithium Iron Phosphate Batteries 12V135AH



Model:SL4580W



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

Battery Type - Chemistry	LiFePO4	Internal Resistance - Milliohms	< 50 mΩ	
Nominal Voltage	12.8 V	Efficiency - round trip	> 99.5 %	
Amp Hour Capacity	135 AH	Self Discharge per Month	< 3 %	
Energy Density	1728 Wh	Max 4 - series connections	12-48 V	
Dimensions(LxWxH)	600*370*75 mm	Parallel connections	No Limited	
Weight	20 KGS	Case IP Rating	IP50	
Terminal Type	Anderson	DesignLife	20 Years	
Terminal Torque	NM	Cycle Life (1C, 25°C@80%DOD)	>4000 cycles	
Case Material	Metal	Cycle Life (0.2C, 25°C@80%DOI	>6000 cycles	
BMS build-in	Yes			
		Discharge Temperature	(-23 to 65) °C	
Recommend Charge Voltage	14.2 ±0.20V	Charge Temperature	(−3 to 65) °C	
Max Charge Voltage	14.8 ±0.20V	Storage Temperature	(-20 to 45C) °C	
Recommend Charge current	25 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°C)	<0.05 C	Heating functions -20°C	Optional By Charger	
Recommend Discharging voltage	11.8 ±0.20V	Batteryself heating function	Optional BY Cell	
Max Discharging Voltage	9.6 ±0.20V			
Max Discharge Current	100 A	Shipping Classification	UN3480, CLASS 9	
Pulse Discharge Current	210 A±3S	Other Certifications	CB /CE	

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BMS SPECIFICATIONS						BMS Version :LL	
BMS Protections Range:	Over (Voltage, Current, Temperaturemanagement) and cell balance						
Over Charging Cell protection	>3.80	±0.05V	Delay	2	±0.5S		
Over Charging Pack protection	>14.8	±0.20V	Delay	2	±0.5S		
Over Charging Current 1	>105.0	±2.0A	Delay	15	±2.0S		
Over Charging Current 2	>125	±2.5A	Delay	2	±1.0S		
OverCharging Temp Protection 1	<-0 or>65	±3℃	Release	>3 or < 60	±3°C	Delay:2±0.5S	
Over Discharging Cell protection	<2.1	±0.05V	Delay	2	±0.5S		
Over Discharging Pack protection	<9.6	±0.20V	Delay		±0.5S		
Over Discharging current 1	>105.0	±2.5A	Delay	15	±2.0S		
Over Discharging current 2	>180	±2.5A	Delay	2	±1.0S		
Over Discharging current 3	NA						
Over Discharging Temp Protection 1	<-20 or>65	±3°C	Release	>-15 or < 60	±3°C		
PCB Temp protection	>95	±3°C	Release	< 75	±3°C	Delay:2±0.5S	
Cell Balance Start		5 ±0.05V					
Balance Current	100 ±20mA						
Short circuit	Load Short cir	cuit	Delay	1	±0.5ms		
Power consumption	<300	uA	Switch-off mode S		Storage &	Storage & transportation	
	<500	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/Bluetooth/RS485/Dryport/SNMP Car			Can be c	Can be customizeddevice		
Temperature accuracy	±2	°C	Measuring	g range -40~10	00°C		
Voltage accuracy	±20	mv	For cells and module				
Current accuracy	FSC	±5%	Measuring range -200~+200A				
SOC	±5%		Integral c	alculation			





