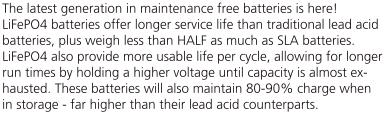
## **LiFePO4 Lithium Iron Phosphate Batteries** 12V50AH

Model:SL4566A







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.















<b>BATTERY</b>	SPECIFI	<b>CATIONS</b>

Battery Type - Chemistry	LiFePO4	Internal Resistance - Milliohms	< 50 mΩ
Nominal Voltage	12.8 V	Efficiency - round trip	> 99.5 %
Amp Hour Capacity	50 AH	Self Discharge per Month	< 3 %
Energy Density	640 Wh	Max - series connections	51.2 V
Dimensions(LxWxH)	229*138*213 mm	Parallel connections	4PCS
Weight	6.3 KGS	Case IP Rating	IP50
Terminal Type	M6	DesignLife	20 Years
Terminal Torque	14 NM	Cycle Life (1C, 25°C@80%DOD)	>4000 cycles
Case Material	ABS	Cycle Life (0.2C, 25°C@80%DOI	) >6000 cycles
BMS build-in	Yes		
		Discharge Temperature	(-23 to 65) ℃
Recommend Charge Voltage	13.8 ±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	50 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 Charger
Recommend Discharging voltage	10.6 ±0.20V	Batteryself heating function	Optional BY Cell
Max Discharging Voltage	8.8 ±0.20V		
Max Discharge Current	50 A	Shipping Classification	UN3480, CLASS 9
Pulse Discharge Current	180 A±15S	Other Certifications	CB /CE

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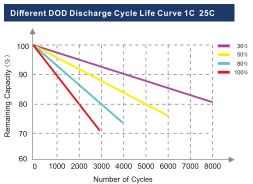
Datasheet revision date: 12/7/22

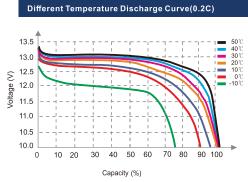
## LiFePO4 Lithium Iron Phosphate Batteries 12V50AH

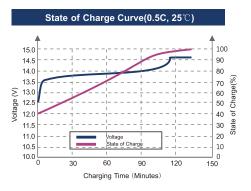
Model:SL4566A



BMS SPECIFICATIONS						BMS Version :JWZN	
BMS Protections Range:	Over (Voltage	e, Current, Te	emperaturem	anagement )	and cell ba	llance	
Over Charging Cell protection	>3.75	±0.05V	Delay		2 ±0.5S		
Over Charging Pack protection	>15.0	±0.20V	Delay		2 ±0.5S		
Over Charging Current 1	>50	±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	<2.2	±0.05V	Delay		2 ±0.5S		
Over Discharging Pack protection	<8.8	±0.20V	Delay		2 ±0.5S		
Over Discharging current 1	>180	±2.5A	Delay	1	.5 ±2.0S		
Over Discharging current 2	>360	±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 < 6	0 ±3℃		
PCB Temp protection	>95	±3℃	Release	< 75	±3°C	Delay:2±0.5S	
Cell Balance Start		.5 ±0.05V					
Balance Current	3	5 ±20mA					
Short circuit			Delay	35	00 ±0.5ms		
Power consumption	<100	uA	Switch-off mode Storage & t		& transportation		
	<100	uA	Sleep mode Pro		Protection	Protection & stand-by	
	<15	mA	Operating mode Oper		Operatin	ng	
	<28	mA	Operating mode		Low volt	Low voltage to start Pre-charge	
Communication ports	Opitional for CAN/Bluetooth/F		th/RS485/Dryport/SNMP		Can be o	Can be customizeddevice	
Temperature accuracy	±2	$^{\circ}$ C	Measuring	g range -40~1	.00°C		
Voltage accuracy	±3.5	mv	For cells and module				
Current accuracy	FSC	±5%	Measuring range -200~+200A				
SOC	±5%		Integral calculation				







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