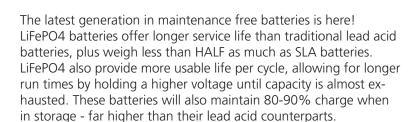
# LiFePO4 Lithium Iron Phosphate Batteries 12V 30AH Model: SL4557A







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 Module Specification**

	Item	Specification	Conditions
N	Voltage	12.8V	25C°,0.2C
Nominal	Capacity	30Ah	
Module weight		3.8kg	±0.1kg
Dimensions(W*D*H), mm		166X175X125X125	±2mm
	Charging Voltage	14.8V	
Operating parameters	Discharging Voltage	11.8V Recommended	8.8~15V
	Charging current	Max constant charge: 30A	Recommended 10A
		Max constant discharge:30A	
	Discharging current	Pulse discharge: 90A for 500mS	
Temperature	Charge range	0C°~45C°	
	Discharge range	-20C°~60C°	
	Storage range	-20C°~45C°	
BMS	Built-in BMS	Voltage, current, temperature management & cell balance	
Service life	Design life	>10years	0.2C, 25C°
	Cycle life (100%DOD to 80% end)	>2000 times	
JEIVILE IIIE	Cycle life (100%DOD to 50% end)	>4000 cycles	@0.5C, 25C°

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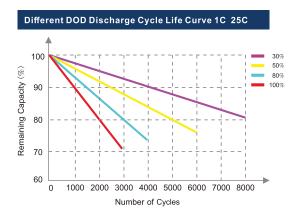
## **Battery Management System Specification**

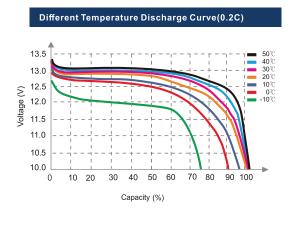
ltem		Parameters		Condition	
Charge	Cell voltage protection	3.7V	Delay 1~2S	Recover when discharge	
	Module voltage protection	14.8V	Delay 1~2S	current >1A or Cell voltage<3.38V or module voltage<13.52V	
	Over charging current 1	30A	Delay 20~30S	-	
	Over charging current 2			Turn to pre-charge mode and try to recover in every 3min	
	Temperature protection	<-10C° or >70C°	Delay 1~2S	Recover when >0C°or <60C°	
Discharge [	Cell voltage protection	2.1V	Delay 500mS	Recover when charge current >1A or Cell voltage>2.6V or module voltage>10.4V	
	Module voltage protection	8.4V	Delay 1~2S		
	Over discharging current 1	55~90A	Delay 500~1500mS	Recover when charging current>1A, or recover in every 60S	
	Over discharging current 2	-	-		
	Short circuit	-	200~700 us		
	Temperature protection	<-20°° or >75°°	Delay 1~2S	Recover when >-10C°or <65C°	
BMS	PCB Temp protection	>115C°	Delay 1~2S	Recover when <80C°	
	Cell balance	25~45mA	Passive balance	Cell voltage difference > 45mV	
	Temperature accuracy	±2C°	Cycle measurement	Measuring range -40~100C°	
	Voltage accuracy	±20mV	Cycle measurement	For cells and module	
	Current accuracy	FSC±5%	Cycle measurement	Measuring range -200~+200	
	SOC	5%		Integral calculation	
		<300uA	Switch-off mode	Storage & transportation	
		<100uA	Sleep mode	Protection & stand-by	
	Power consumption with	<15mA	Operating mode	Operating	
	different condition	NA	Pre-charge mode	Low voltage to start Pre-charge	
	Communication ports	NA		Can be customized to match the device	

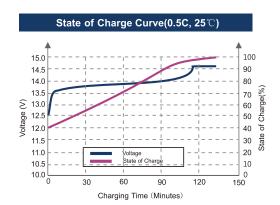
## LiFePO4 Lithium Iron Phosphate Batteries 12V 30AH Model: SL4557A



#### **Performance**







### **Battery & Connection Specifications**

Item	Specification	
Dimensions:	195 x 130 x 168mm	
Overall Weight:	3.5kg	
Terminal Type:	M6 / F8	
Terminal Torque:	6.2NM	
Connection:	12-48V max 4 in series, no limit in parallel.	
Case Material:	ABS	
Case IP Rating:	IP56	
Cell Type:	Cylinder	
Certification:	CB/CE, UN38.3, UL1642 @ cell.	
Shipping Class	UN3480, Class 9	