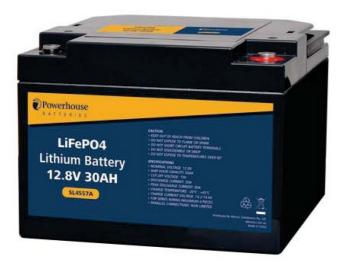
## LiFePO4 Lithium Iron Phosphate Batteries 12V30AH

Model:SL4557A





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	LiFePO <sub>4</sub>	Internal Resistance - Milliohms	$< 15$ m $\Omega$
Nominal Voltage	12.8 V	Efficiency - round trip	> 99.5%
Amp Hour Capacity	30 AH	Self Discharge per Month	< 3%
Energy Density	384 Wh	Max 4 - series connections	<b>12-48</b> V
Dimensions (L*W*H)	166*175*125 mm	Parallel connections	No Limited
Weight	3.6 KG	Case IP Rating	IP65
Terminal Type	M6	Design Life	20 Years
Terminal Torque	8.5 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	(− <b>23 to 65)</b> °C
Recommend Charge Voltage	$14.2 \pm 0.20 V$	Charge Temperature	(−3 to 65)°C
Max Charge Voltage	$14.8 \pm 0.20 V$	Storage Temperature	(− <b>20 to 45)</b> °C
Recommend Charge current	6 A		
Max Charge Current	30 A	Bluetooth(APP)	Optional
Charge Current (0 to -10 $^{\circ}$ C)	<0.1C	LCD Screen	Optional
Charge Current (-20 to -10 $^{\circ}$ C	(0.05C	Heating functions -20°C Option	onal By Charger
Recommend Discharging volt	age $10.8\pm0.20$ V	Batteryself heating function Opt	ional By Cell
Max Discharging Voltage	$8.8 \pm 0.20 V$		
Max Discharge Current	30 A	Shipping Classification UN3480,	CLASS9
Pulse Discharge Current	90A/3S	Other Certifications CB /CE	

## LiFePO4 Lithium Iron Phosphate Batteries 12V30AH

Model:SL4557A



## BMS SPECIFICATIONS BMS Version: JBD

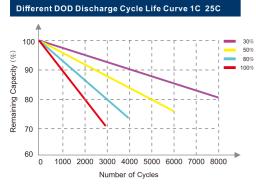
BMS Protections Range: Over (Voltage, Current, Temperature management) and cell balance

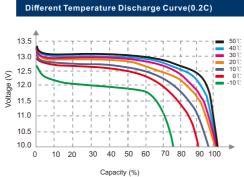
Over Charging Cell protection	>3.75±0.03V	Delay 500ms-1500ms
Over Charging Pack protection	>15.0±0.12V	Delay 500ms-1500ms
Over Charging Current 1	50±15A	Delay 500ms-1500ms
Over Charging Current 2		Delay 500ms-1500ms
Over Charging Temp Protection 1	-2±5°C or 54±5°C	Release 2±5°C or 49±5°C
Over Discharging Cell protection	<2.2±0.08V	Delay 500ms-1500ms
Over Discharging Pack protection	<8.8±0.32V	Delay 500ms-1500ms
Over Discharging current 1	250±80A	Delay 100ms-400ms
Over Discharging current 2	500±200A	Delay 10ms-40ms
Over Discharging Temp Protection 1	75±5℃	Release 60±5°C
PCB Temp protection	90±8°C	Release 65±15°C
Cell Balance Start	3.50±0.05V	
Cell Balance Current	200±50mA	

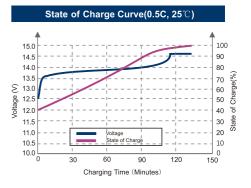
Short circuit

1000±300A Delay

200-800us







Datasheet revision data: 12/9/23