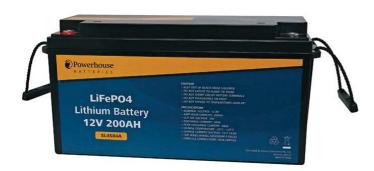
LiFePO4 Lithium Iron Phosphate Batteries 12V200AH

Model:SL4584A





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 ₄ | Internal Resistance - Milliohm | is $< 4 \text{m} \Omega$ |
|---|---------------------|--------------------------------|--------------------------|
| Nominal Voltage | 12.8 V | Efficiency - round trip | > 99.5% |
| Amp Hour Capacity | 200 AH | Self Discharge per Month | < 3% |
| Energy Density | 2560 Wh | Max 4 - series connections | 12-48 V |
| Dimensions (L*W*H) | 482*170*240 mm | Parallel connections | No Limited |
| Weight | 22.0 KG | Case IP Rating | IP65 |
| Terminal Type | M8 | Design Life | 20 Years |
| Terminal Torque | 12.4 NM | Cycle Life (1C, 25°C@80%DOI | D) >4000 cycles |
| Case Material | ABS | Cycle Life (0.2C, 25°C@80%D | OD) >6000 cycles |
| BMS build-in | Yes | | , |
| | | Discharge Temperature | (−23 to 65)°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 | (−20 to 45)°C |
| Recommend Charge current | 40 A | | |
| Max Charge Current | 200 A | Bluetooth(APP) | Optional |
| Charge Current (0 to -10 $^{\circ}$ C) | <0.1C | LCD Screen | Optional |
| Charge Current (-20 to -10 $^{\circ}\mathrm{C}$ |) <0.05C | Heating functions -20°C | Optional By Charger |
| Recommend Discharging volta | age 10.8 ± 0.20 V | Batteryself heating function | Optional By Cell |
| Max Discharging Voltage | $8.8\pm0.20V$ | | |
| Max Discharge Current | 200 A | Shipping Classification | UN3480, CLASS9 |
| Pulse Discharge Current | 600A/3 s | Other Certifications | CB /CE |

LiFePO4 Lithium Iron Phosphate Batteries 12V200AH

Model:SL4584A



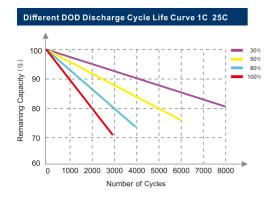
BMS SPECIFICATIONS

BMS Version: JBD

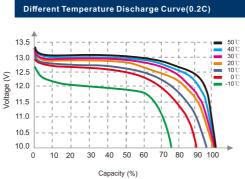
BMS Protections Range: Over (Voltage, Current, Temperature management) and cell balance

| 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 | 320±80A | Delay 500ms-1500ms |
| Over Charging Current 2 | | Delay 500ms-1500ms |
| Over Charging Temp Protection 1 | -15±5°C or 54±5°C | Release -8±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 | 1600±350A | Delay 5ms-15ms |
| Over Discharging current 2 | 3200±700A | Delay 500us-1500us |
| Over Discharging Temp Protection 1 | 75±5℃ | Release 58±5°C |
| | | |
| PCB Temp protection | 90±8°C | Release 65±15°C |
| Cell Balance Start | 3.50±0.05V | |
| Cell Balance Current | 200±50mA | |

6400±1200A

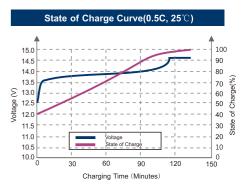


Short circuit



200-800us

Delay



Powerhouse Batteries are distributed in Australia by Altronic Distributors Pty. Ltd. altronics.com.au (08) 9428 2199.

...