LiFePO4 Lithium Iron Phosphate Batteries 12V150AH

Model:SL4581B





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

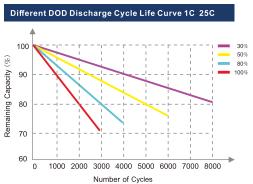
Battery Type - Chemistry	LiFePO4	Internal Resistance - Milliohms	< 50 mΩ
Nominal Voltage	12.8 V	Efficiency - round trip	> 99.5 %
Amp Hour Capacity	150 AH	Self Discharge per Month	< 3 %
Energy Density	1920 Wh	Max - series connections	51.2 V
Dimensions(LxWxH)	521*237*215 mm	Parallel connections	4PCS
Weight	20 KGS	Case IP Rating	IP65
Terminal Type	M8	DesignLife	20 Years
Terminal Torque	16 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) °C
Recommend Charge Voltage	14.8 ±0.20V	Charge Temperature	(-3 to 65) °C
Max Charge Voltage	15.2 ±0.20V	Storage Temperature	(-20 to 45C) °C
Recommend Charge current	40 A		
Max Charge Current	150 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 Charge
Recommend Discharging voltage	10.4 ±0.20V	Batteryself heating function	Optional BY Cell
Max Discharging Voltage	$9.2 \pm 0.20 V$		
Max Discharge Current	150 A	Shipping Classification	UN3480, CLASS 9
Pulse Discharge Current	650 A±15S	Other Certifications	CB /CE

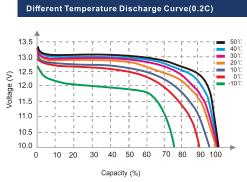
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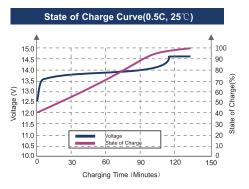
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BMS SPECIFICATIONS						BMS Version :JWZN	
BMS Protections Range:	Over (Voltage	e, Current, Te	emperaturem	nanagement)	and cell ba	lance	
Over Charging Cell protection	>3.85	±0.05V	Delay		2 ±0.5S		
Over Charging Pack protection	>15.4	±0.20V	Delay		2 ±0.5S		
Over Charging Current 1	>150	±2.0A	Delay		5 ±2.0S		
Over Charging Current 2	-	±2.5A	Delay	-	±1.0S		
OverCharging Temp Protection 1	<-0 or>65	±3℃	Release	>3 or < 60	±3°C	Delay:2±0.5S	
Over Discharging Cell protection	<2.3	±0.05V	Delay		2 ±0.5S		
Over Discharging Pack protection	<9.2	±0.20V	Delay		2 ±0.5S		
Over Discharging current 1	>650	±2.5A	Delay	1	5 ±2.0S		
Over Discharging current 2	>1300	±2.5A	Delay		1 ±1.0S		
Over Discharging current 3		±2.5A	Delay		±1.0S		
Over Discharging Temp Protection 1	<-20 or>65	±3℃	Release	>-15 or < 6	0 ±3℃		
PCB Temp protection	>95	±3℃	Release	< 75	±3°C	Delay:2±0.5S	
Cell Balance Start		.6 ±0.05V					
Balance Current	3	86 ±20mA					
Short circuit			Delay	35	0 ±0.5ms		
Power consumption	<100	uA	Switch-of	Switch-off mode Stor		orage & transportation	
	<100	uA	Sleep mode		Protection & stand-by		
	<15	mA	Operating mode		Operatin	Operating	
	<28	mA	Operating mode		Low voltage to start Pre-charge		
Communication ports	Opitional for (CAN/Bluetoc	:h/RS485/Dryport/SNMP		Can be customizeddevice		
Temperature accuracy	±2	$^{\circ}\!\mathbb{C}$	Measuring range -40~100°C				
Voltage accuracy	±3.5	mv	For cells and module				
Current accuracy	FSC	±5%	Measuring range -200~+200A				
SOC	±5%		Integral calculation				







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

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