

LiFePO4 Lithium Iron Phosphate Batteries

12V 150AH

Model: SL4581A



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.



ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8	V
Amp Hour Capacity	150	AH
Reserve Capacity @ 30A	300	min
Energy Density	1920	Wh
Resistance - Milliohms	< 40	
Efficiency - round trip	> 99.5%	
Self Discharge per Month	< 3%	
Max 4 - series connections	12-48V	
Parallel connections	No Limited	

DISCHARGE SPECIFICATIONS

Max Cont Discharge current	100	A
Peak Discharge Current 3C	300	A
BMS Current Cut Off	>100.5A	10S
BMS Current Cut Off	>120A	3S
BMS Current Cut Off	>150A	1S
BMS Voltage Cut Off	10V	
BMS Reconnect Voltage	12V	

TEMPERATURE SPECIFICATIONS

Discharge Temperature	(-20 to 60C)
Charge Temperature	(-20 to 45C)
Storage Temperature	(-5 to 35C)
BMS High Temp Cut Off	80C
BMS Reconnect Temp	50C
IP	50

MECHANICAL SPECIFICATIONS

Dimensions	521X237X217mm
Weight	20 KGS
Terminal Type	M8
Terminal Torque	12.4NM
Case Material	ABS
Case IP Rating	IP65
Cell Type - Chemistry	LiFePO4
Cell Type	Prismatic

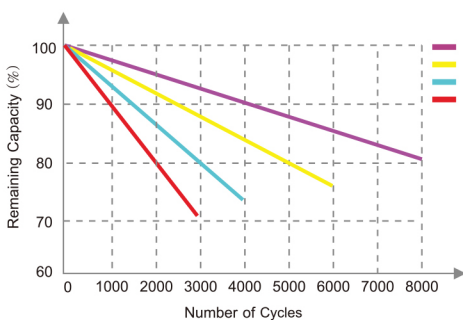
CHARGE SPECIFICATIONS

Recommend Charge current	50A
Max Charge current	100A
Charge current (0 to -10C)	<50A
Charge current (-20 to -10C)	<40A
Recommend Charge current voltage	14.2 - 14.6V
BMS Charge voltage cut off	15.0V
BMS Reconnect voltage	14.4V
Balancing voltage	13.6

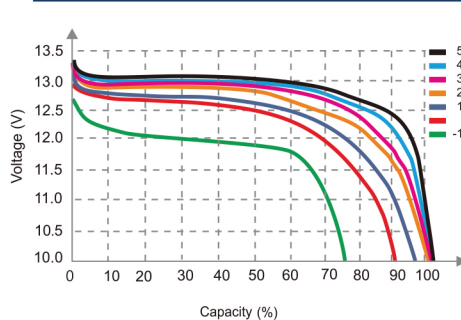
Safety and Performance Specifications

Certifications	CB / CE UN38.3 UL1642 @ cell
Shipping Classification	UN3480, CLASS 9

Different DOD Discharge Cycle Life Curve 1C 25C



Different Temperature Discharge Curve(0.2C)



State of Charge Curve(0.5C, 25C)

