

LiFePO4 Lithium Iron Phosphate Batteries

12V 100AH

Model: SL4576W



These slimline lithium (LiFePO4) batteries are for situations where space is at a premium these compact mountable batteries measure just 75mm high and weigh just 20kg. Each is fitted with 120A Anderson input and output plugs for easy connection to your equipment or solar charger output. Each utilises the same battery management system found in the standard LiFePO4 battery series for safe operation at all times, plus a handy voltage & capacity readout.

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	100	AH
Reserve Capacity @ 30A	200	min
Energy Density	1280	Wh
Resistance - Milliohms	< 50	
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		
BMS Current Cut Off	>130-400A	10S

BMS Voltage Cut Off	10V
BMS Reconnect Voltage	12V

CHARGE SPECIFICATIONS

Recommend Charge current	0.05C-0.5C
Max Charge current	1C
Charge current (0 to -10C)	<0.1C
Charge current (-20 to -10C)	<0.05C
Recommend Charge current voltage	14.2 - 14.6V
BMS Charge voltage cut off	15.0V
BMS Reconnect voltage	14.4V
Balancing voltage	13.6

MECHANICAL SPECIFICATIONS

Dimensions(L*W*H)	600 x 275 x 75mm
Weight	20 KGS
Terminal Type	Anderson 100A
Terminal current	1C max
Case Material	SSP
Case IP Rating	IP50
Cell Type - Chemistry	LiFePO4

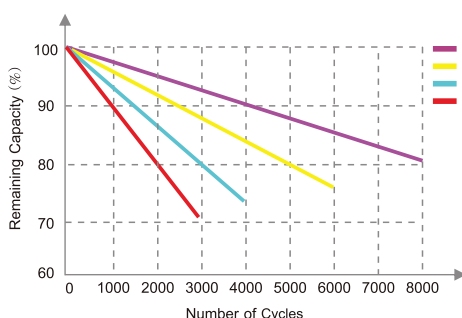
Safety and Performance Specifications

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

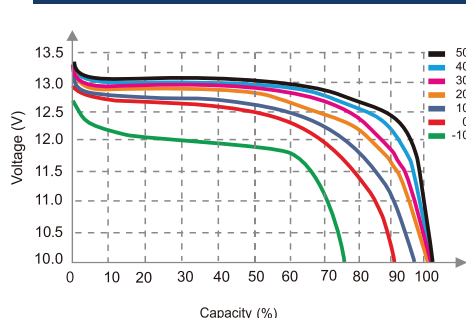
TEMPERATURE SPECIFICATIONS

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

Different DOD Discharge Cycle Life Curve 1C 25C



Different Temperature Discharge Curve(0.2C)



State of Charge Curve(0.5C, 25C)

