51100 LifePo4 Battery Specification

ELECTRICAL PERFORMANCE

Parameter	Value
Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Energy	5120 Wh
Resistance	< 50mΩ
Self Discharge	< 3%
Cells	3.2V 100Ah Cells

MECHANICAL PERFORMANCE

Parameter	Value
Dimension (LxWxH)	500x520x145mm
Approx. Weight	48 Kg
Communication interface	RS485/CAN
Communication connector	RJ45 (484A/485B)
Switch	Yes
Case Material	Metal

CHARGE PERFORMANCE

Parameter	Value
Recommended Charge Current	20 A
Maximum Charge Current	110 A
Recommended Charge Voltage	56-58.4 V
BMS Charge Cut-Off Voltage	> 58.4V (or 3.7 V/Cell)
Reconnect Voltage	< 54V (or all cell <3.38 V)

DISCHARGE PERFORMANCE

Parameter	Value
BMS Discharge Current High Warning	100 A
BMS Discharge Cut-Off Current	120 A (100ms)
Low Voltage Warning	44.8 V (or Cell <2.8 V)
BMS Discharge Cut-Off Voltage	<43.2V (1 s) (or Cell <2.7 V)
Reconnect Voltage	>47.2 V (or all cell >2.95 V)

TEMPERATURE PERFORMANCE

Parameter	Value
Discharge Temperature	- 20 ~ 60 °C
Operating Temperature	- 10 ~ 60 °C
Storage Temperature	- 5 ~ 35 °C
BMS High Temperature Cut-Off	65 °C

Lithium Upgrade and Install Tips

Consult with your battery supplier or dealer to confirm compatibility with your system components including converters, solar charge controllers, and inverter chargers.
Only purchase lithium batteries that have a Battery Management System built in.
Confirm that your new battery bank can handle the loads of your system before buying it.



