



Lithium WM 51-100

Lithium Ion Technology



10 Year Warranty



Designed to last 15 years



Parallel Up
To 16 Units



Intelligent BMS communicates
with major inverter brands

99%
EFFICIENCY

99%
DoD UNDER
WARRANTY

1C
100Ah MAX DISCHARGE

16 Cell
TECHNOLOGY

HIGH CYCLE LIFE
>6 000 CYCLE @ 80% DoD @ 25°

Mechanical Characteristics

Weight	Approx. 43Kg
Package Material	Black Powder Coat Carbon Steel (Q235A)
Dimensions	450mm x 500mm x 140mm
Communication Ports	RS485; RS232; CAN
Accessories	Included: Parallel Cables, Cabinet Bolts, 25mm/35mm/50mm Cable Dry Contact Jockey, Pack, Custom Comms Cable Manual, UART Cables to suit your inverter (RS232 & RS485)

Features

Intelligent BMS Features	Autonomous Cell Balancing, Real Time Value Updates via comms, Cycle Counter, Anti-Theft Feature, Various Protection Mechanisms, Remote Firmware Updates Possible
Real Time Protection Features	Over-Charge, Over-Discharge, Over-Temperature, Reverse Polarity, Anti-Theft, BMS able to trip MCB in Emergency
Warranty	10 Years
Maintenance	Easy maintenance with SOC (charge status) and SOH (health status) detection

Electrical Characteristics

Rated Capacity	100Ah
Nominal Voltage	51.2V
Nominal Energy	5120Wh
Maximum Discharge Voltage	43.2V (99% DoD)
Maximum Charge Voltage	57.6V (0% DoD)
Maximum Charge Current	50A @ 25°C
Maximum Discharge Current	100A @ 25°C
Parallel Capability	16 Units
Operating Temperatures	Charge / Discharge: 0°C to 60°C Storage: -20°C to 60°C
Cycle Life	>6000 @ 25°C 80% DoD (±15 years)
Cell Design	16x 3.2V Prismatic Lithium Iron Phosphate (51V nominal)

Constant discharge

51.2V LFELI-48100W2 model	Constant current discharge at 25°C	Constant power discharge at 25°C
100A	1 hours	5120W
50 A	2 hours	2560W
33 A	3 hours	1690W
20A	5 hours	1024W
10A	10 hours	512W

User Defined Settings

Low DC Cut-Off @ 99% DoD	42.1V
Low DC Cut-Off @ 90% DoD	44V
Low DC Cut-Off @ 80% DoD	46V
Bulk Charge	54V
Float Charge	51.7V

