



Lithium WM 51-100

Lithium Ion Technology



1C Discharge



Parallel up to 16 units



99% DoD Under Warranty

Warranty



10 year Warranty

Comprehensive Certifications

- ISO/TS 16949: 2009, UL 94V-0
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety man
- TUV:2017-12-01

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YEAR DESIGN LIFE

99%

DoD UNDER WARRANTY

1C

100Ah MAX DISCHARGE

16 Cell

TECHNOLOGY

HIGH CYCLE LIFE

>5 000 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, Dry Contact Jockey, Manual, UART Cables (RS232 & RS485)	25mm/35mm/50mm Cable Pack, Custom Comms Cable to suit your inverter

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

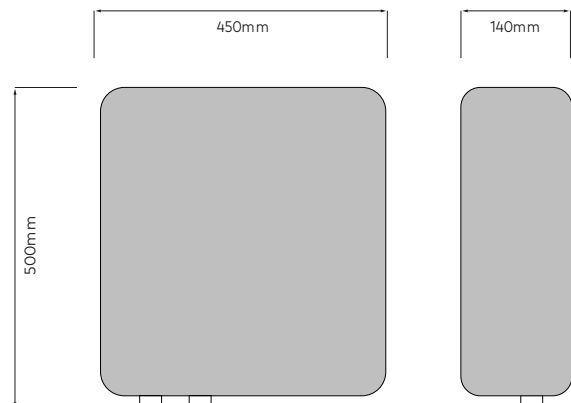
Electrical Characteristics

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	>5000 @ 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

End of discharge voltage 43.2



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

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