

Lithium 51 – 100

Lithium Ion Technology



20 Year Design Life



Interactive LCD Display for instant device information



Parallel up to 15 units



Intelligent BMS communicates with major inverter brands

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

99%
EFFICIENCY

100%
DoD

1C
100Ah MAX CHARGE
100Ah MAX DISCHARGE

16 Cell
TECHNOLOGY

HIGH CYCLE LIFE
>6 000 CYCLE @ 80% DoD @ 25°
>4 500 CYCLE @ 90% DoD @ 25°

Mechanical Characteristics

Weight	Approx. 43Kg	
Package Material	Black Powder Coat Steel	
Dimensions	442mm x 431mm x 177mm	
Communication Ports	1x RS 232, 3x RS 485, 1x CAN-BUS, 1x Dry Contact	
Accessories	Included: Parallel Cables, Cabinet Bolts, Dry Contact Jockey, Manual, UART Cables (RS232 & RS485)	Optional: 19" Cabinet, 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 - True Warranty
Human Interaction	Interactive LCD Screen, LED Indicators, Audible Alarm

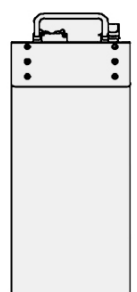
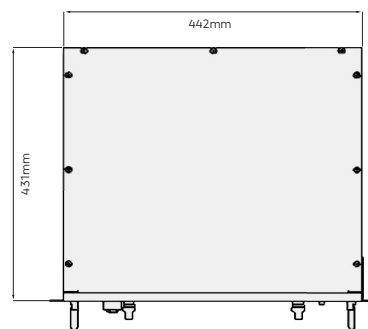
Electrical Characteristics

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	100A (1C) (1-4 units)	50A (5-10 units)	20A (11-15 units)
Recommended Discharge Current	< 80A (1-4 units)	< 60A (5-10 units)	< 40A (11-15 units)
Parallel Capability	15 Units		
Operating Temperatures	Charge / Discharge: 0°C to 60°C		Storage: -20°C to 60°C
Cycle Life	>6000 @ 80% (±15 years)		>4500 @ 90% (±12 years)
Cell Design	16x 3.2V Prismatic Lithium Iron Phosphate (51.2V nominal)		

Constant discharge

End of discharge voltage 43.2V

48V LFeLi-48100MB 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	1706W
20A	5 hours	1024W



User Defined Settings

Low DC Cut-Off @ 99% DoD	43.2V
Low DC Cut-Off @ 90% DoD	44.6V
Low DC Cut-Off @ 80% DoD	50.6V
Bulk Charge	57.6V
Float Charge	54.2V