

# Lithium 51 – 200

## Lithium Ion Technology



20 Year Design Life



Parallel up to 15 units



Powerful 150A Discharge



Interactive LCD Display for instant device information



Intelligent BMS communicates with major inverter brands



6000 cycles @ 80% DoD

### Warranty



10 Year Warranty

### Comprehensive Certifications

- ISO/TS 16949: UL 94V-0
- ISO 9001: Quality management systems
- ISO 14001: Environmental management systems
- OHSAS 18001: Occupational health and safety man
- TUV



## HIGH PERFORMANCE

150A DISCHARGE  
10.24 kWh NOMINAL CAPACITY

99%  
EFFICIENCY

16 Cell  
TECHNOLOGY

## HIGH CYCLE LIFE

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

### Mechanical Characteristics

Weight	Approx. 85Kg
Package Material	Black Powder Coat Steel
Dimensions	442mm x 550mm x 244mm
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 Warranty
Human Interaction	Interactive LCD Screen, LED Indicators, Audible Alarm

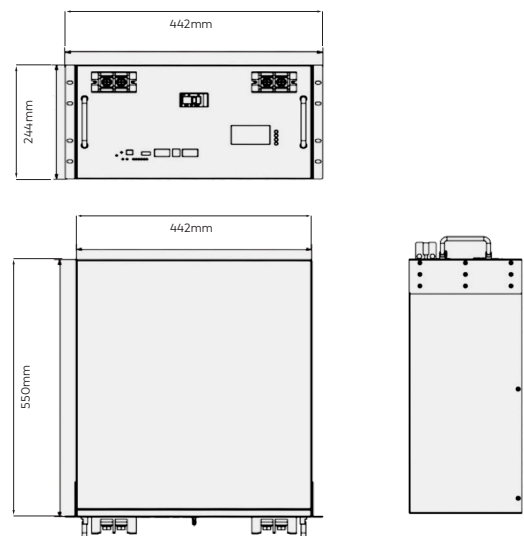
### Electrical Characteristics

Rated Capacity	200Ah		
Nominal Voltage	51.2V		
Nominal Energy	10240Wh		
Maximum Discharge Voltage	43.2V (99% DoD)		
Maximum Charge Voltage	57.6V (0% DoD)		
Maximum Charge Current	150A (1 unit)	100A (2-10 units)	80A (11-15 units)
Recommended Discharge Current	< 100A (1-4 units)	< 80A (5-10 units)	< 60A (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% (±16 years)		>4500 @ 90% (±12 years)
Cell Design	16 x 3.2V Prismatic Lithium Iron Phosphate (51.2V nominal)		

### Constant Discharge

48V Lithium 48-100 model	Constant current discharge at 25°C	Constant power discharge at 25°C
150A	1 hour 15mins	7600W
98A	2 hours	4990W
66A	3 hours	3398W
40A	5 hours	2016W
20A	10 hours	1017W

End of discharge voltage 43.2 V



### User Defined Settings

Low DC Cut-Off @ 99% DoD	43.2V
Low DC Cut-Off @ 90% DoD	45V
Low DC Cut-Off @ 80% DoD	47.2V
Bulk Charge	57.6V
Float Charge	54V