LIFEPO4 LITHIUM BATTERY

VB48-100LFP ESS







Safety

- Prismatic LiFePO4 cells [100Ah, CB79] (UL 1973)
- IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), IP20 Rating

Design

- 19″ 3U rack-compatible
- Up to 15 parallel connectivity
- State-of-charge (SOC) indication
- CAN bus & RS-485 connectivity
- BMS on/off switch
- PC Connectivity

Battery Management System (BMS)

- Integrated hardware BMS inside
- Independent charge & discharge protection, in-line breaker
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

48V LFP Profile

Series	VB SERIES LFP	Warranty	See Warranty Terms
Volts	48	Design	19" Rack Std.
Terminal Type		4x M6 Terminals (2+/2-)	
Size & Thread		M6	

Charge | Discharge	
Charge Voltage Range	56.0 V (55.2 V-57.6 V)
Recommended Charge Current	50 A
Maximum Charge Current	100 A
Self-Discharge Rate	Less than 3% per month at 15-35°C
Recommended End of Discharge Voltage	50 V
End of Discharge Protection Voltage	44 V
Recommended Charge Voltage	56 V
Recommended Charge Current	

0-10°C (32-50°F)	0.2C	20A
10-17°C (50-63°F)	0.4C	40A
17-40°C (63-104°F)	1C	100A
40-50°C (104-122°F)	0.3C	30A
50-60°C (122-140°F)	0.1C	10A

Charge Mode:
Charge at recommend voltage & current by temperature until charge current drops to ≤ 0.05C (CC,CV)

Max Continuous Charge Current	100 A
Max Continuous Discharge Current	100 A
Surge Current Limit	120 A (300ms)
Charge Temperature Range	0-50°C (-14~122°F)
Discharge Temperature Range	-20°~50°C (-4~122°F)
Storage Temperature Range	-15°~35°C (5~95°F)

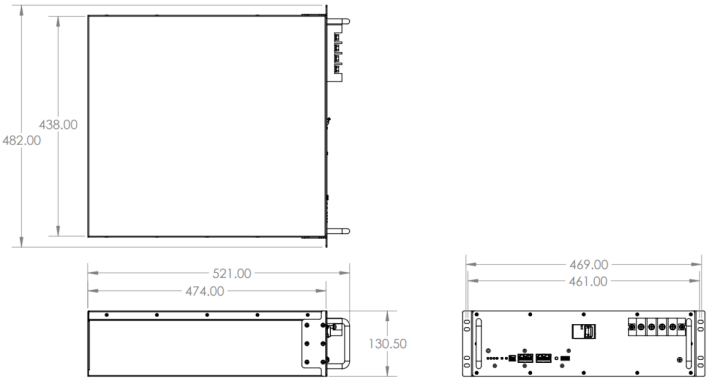
Capacity	
Nominal Capacity	100 AH
Total Energy	5.12 kWh
Nominal Voltage	51.2 V

Specifications			
Weight	41.5 kg	91.5 lbs	
Length	480 mm	18.9"	
Width	442 mm	17.4"	
Height Incl. Term.	130.5 mm	5.14"	

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

Container	Metal
Handles	Built-in
Internal BMS Model	RD-RJ16S100A-5G
Expected Cycle Life	>3500 @ 90% DOD, 0.5C rate, 80% EoL
Series Connection	1
Parallel Connection	15
Connectivity	1x RS-485 / CAN bus See Operating Manual for compatible inverters, communication types and protocols

Detailed Illustration



ISO9001 ISO14001 OHSAS18001

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