LIFEPO4 LITHIUM BATTERY

VB12-314LFP







Series	VB SERIES LFP	Warranty	See Warranty Terms
Volts	12	Design	65N
Terminal Type		M8	
Included Hardware		M8 stainless bolts & washers	
Size & Thread		M8	

Charge | Discharge

Charge Voltage Range	14.2-14.6V
End of Discharge Protection Voltage	11.2 V
Recommended Charge Current	

-20~50°C (-4-122°F)	0.32C	100A

Charge Mode:
• Charge at recommend voltage & current by temperature until charge current drops to ≤ 0.05C (CC,CV)
• DO NOT USE TEMPERATURE COMPENSATION
• No BTS (Battery Temperature Sensor)

Max Continuous Charge Current	150 A
Max Continuous Discharge Current	150 A
Charge Temperature Range	-20~50°C (-4~122°F)
Discharge Temperature Range	-20~55°C (-4~131°F)
Storage Temperature Range	-5°~45°C (23~113°F)

Capacity

Nominal Capacity	314 AH
Total Energy	4.02 kWh
Nominal Voltage	12.8 V

Safety

- Prismatic LiFePO4 cells [CB75/3.2V314Ah]
- IEC 62619 (cell), UL 1973 (cell), UN38.3 (cell/pack)
- ROHS (cell), IP65 Rating

Design

- ABS container
- Fast charge/discharge performance
- Maintenance-free operation
- Heating for low temperature operation
- Bluetooth Connectivity & dedicated IOS & Android App

Battery Management System (BMS)

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

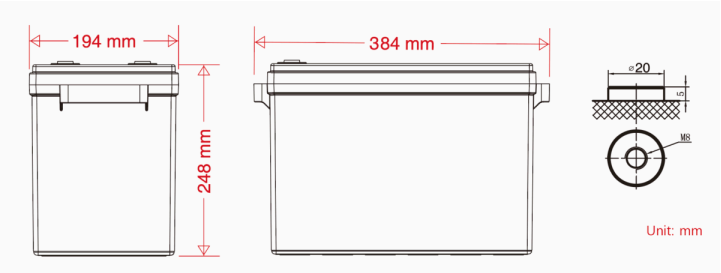
Specifications

Weight	28 kg	61.7 lbs
Length	384 mm	15.12"
Width	194 mm	7.64"
Height	248 mm	9.76"
Height Incl. Term.	253 mm	9.96"

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

Container	ABS
Cover	ABS
Handles	Rope / Plastic Handle
Internal BMS Model	RD-RJ4S150A
Expected Cycle Life	>6000 @ 100% DOD 25°C, 0.2C/0.2C, and 60% EOL
Series Connection	4 UNITS MAX (48V)
Parallel Connection	4 UNITS MAX (48V)
Connectivity	Up to 4S4P (in 48V configuration)

Detailed Illustration



ISO9001 ISO14001 OHSAS18001

Rev.#2 | November 2025