LIFEPO4 LITHIUM BATTERY

VB12-460LFP





Series	VB Series LFP	Warranty	See Warranty Terms
Volts	12	Design	8D
Terminal Type		M8	
Included Hardware		M8 stainless bolts & washers	
Size & Thread		M8	

Charge | Discharge

Charge Voltage Range	14.4-14.6V
End of Discharge Protection Voltage	11.2 V
Recommended Charge Current	

-20~50°C (-4-122°F)	0.2C	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	200 A
Max Continuous Discharge Current	200 A
Charge Temperature Range	-20~55°C (-4~131°F)
Discharge Temperature Range	-20~55°C (-4~131°F)
Storage Temperature Range	-20~55°C (-4~131°F)

Capacity

Nominal Capacity	460 AH
Total Energy	5.89 kWh
Nominal Voltage	12.8 V

Safety

- Prismatic LiFePO4 cells [CB41/3.2V100Ah]
- ROHS (cell), IP65 Rating

Design

- ABS container
- Fast charge/discharge performance
- Maintenance-free operation
- Heating for low temperature operating
- 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

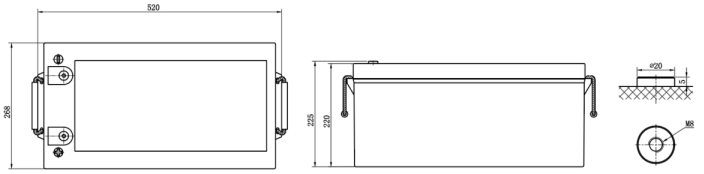
Specifications

Weight	42 kg	92.6 lbs
Length	520 mm	20.47"
Width	268 mm	10.55"
Height	220 mm	8.66"
Height Incl. Term.	225 mm	8.86"

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-RJ4S200A
Expected Cycle Life	>6000 @ 80% DOD (0.2C), >3000 @ 100% DOD (0.5C)
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