

TECHNICAL DATASHEET

Low-voltage Battery

BXB16KLV // RESIDENTIAL USE // COMMERCIAL USE

Low-voltage LiFePO₄ solar battery with a capacity of 16.07 kWh and a nominal voltage of 51.2 Vdc. Designed for residential energy storage with a multi-parallel configuration to expand capacity according to user needs. CAN and RS485 communication for integration with compatible hybrid inverters.



- ✓ High-safety LFP Battery Cells.
- ✓ Advanced BMSControl.
- ✓ Supports Charging Down to -15 °C / 5 °F.
- ✓ Max. 64 Sets in Parallel.
- ✓ Automatic Parallel Configuration.
- ✓ IP65.
- ✓ Easy Installation.
- ✓ Blackout and Emergency Backup.

FEATURES



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MODEL	LOW-VOLTAGE BATTERY
ELECTRICAL CHARACTERISTICS	
Cell Type	LiFePO ₄
Rated Capacity	314Ah
Rated Voltage	51.2V
Rated Energy	16kWh
Working Voltage Range	43.2V-58.4V
Max. Parallel Quantity	64 sets, 1,028.9kWh
Rated Charge/Discharge Current	160A
Max. Charge / Discharge Current	160A / 200A
Max. Charge / Discharge Power	8.2kW / 10.2kW
Peak Discharge Current / Power	250A / 12.8kW, 15S
Available SOC Range	0%~100%
Dimensions (WxDxH)	500 x 235 x 943mm (±5)
Weight	~275.6lbs / ~125kg
Operating Temperature [1*]	Charge: -15°C-55°C / 5°F-131°F Discharge: -20°C-55°C / -4°F-131°F
Storage Temperature [2*]	-20°C-55°C / -4°F-131°F
Working Humidity	5-95% RH (non-condensing)
Altitude	≤3,000m / 9,843ft
Communication	CAN / RS485 / Wi-Fi
Cycle Life [3*]	>8,000 cycles
Fire Extinguisher	Optional
Heating Film	Optional
Installation Methods	Floor-standing / Wall-mounted
IP Rating	IP65
Certification	UL 1973, UL 9540A, UL 9540, UN 38.3, FCC

NOTES

[1*] Recommended operating temperature: 10°C~30°C / 50°F~86°F. [2*] Recommended storage temperature: 10°C~30°C / 50°F~86°F. [3*] Working condition: 0.5C@ 25°C, 90% DoD, 70% SOC.