BEXIE ENERGY

Europe based aftersale
Company HQ in Spain

TECHNICAL DATASHEET

Low-Voltage Solar Battery 16 kWh

BXB 16 KLV- G2 // RESIDENTIAL USE // COMMERCIAL USE // INDUSTRIAL USE

Low-voltage 51.2 V lithium iron phosphate battery with 16 kWh capacity, designed for residential solar energy storage and backup during grid outages. Its compact, modular design with carrying handles makes it easy to move and install indoors or outdoors. The built-in BMS monitors cell voltage, current and temperature and balances the cells to extend cycle life. Up to 4 modules can be connected in parallel.



- 16 kWh LFP module, expandable up to 64 kWh with 4 in parallel.
- High discharge power: up to 300 A and 15.36 kW per module.
- Long service life: ≥ 8,000 cycles and 10+ years.
- IP65 protection for indoor and outdoor installation.
- Floor mounting, with optional wall mounting and casters.
- Remote monitoring and upgrade, with fault snapshot and data records.

FEATURES

IP65 OUTDOOR | HIGH CAPACITY | SOLAR COMPATIBLE | LONG CYCLE LIFE | MODULAR EXPANSION

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BEXIE GROUP designs, manufactures and delivers high-performance solar electric technology worldwide.
Our high-efficiency solar cells enable us to produce different types of solar panels with highest efficiency.

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MODEL	2×BXB 16KLV-G2	3×BXB 16KLV-G2	4×BXB 16KLV-G2	BXB 16KLV-G2
BATTERY SYSTEM				
Total Energy	32kWh	48kWh	64kWh	16kWh
Number of Modules	2	3	4	1
Battery Module	51.2V / 314Ah / 16kWh			
Cell Type	LFP (LiFePO4)			
Nominal Voltage	51.2V			
Operating Voltage Range	40V - 58.4V			
Max. Charge/Discharge Current	350A	350A	350A	300A
Continuous Discharge Output	17.92kW	17.92kW	17.92kW	15.36kW
Output Ports	Dual ports, max. 200A per port			
Recommended Depth of Discharge	90%			
Cycle Life	≥ 8,000 cycles (80% DOD, 70% EOL, 25°C), 10+ years			
GENERAL				
Dimensions per Module (WxDxH)	724mm x 240mm x 710mm			
Approximate Weight	242kg	363kg	484kg	121kg
Ingress Protection Degree	IP65			
Operating Temperature Range	Charge: 0°C ~ 50°C / Discharge: -20°C ~ 50°C			
Storage Temperature	0°C ~ 35°C			
Relative Humidity	≤ 95%			
Max. Operation Altitude	≤ 4,000m			
Mounting	Floor / Wall (optional)*			
Casters	Optional			
Fire Extinguishing	Aerosol (optional)			
Color	Silver gray / Pearly white (optional)			
HMI & COM				
LED Indicator	4 LED SOC (25% - 100%, blue), 2 LED status (working green, alarm red)			
Communication Interface	CAN			

NOTES

Remarks: · Preliminary specifications, subject to change in the final version. · The charge/discharge current is affected by temperature and SOC. · *Wall mounting requires a professional evaluation of the wall load-bearing capacity. · For parallel operation, a combiner box can be used. · Installation must be carried out by qualified personnel.