BEXIE ENERGY

Europe based aftersale
Company HQ in Spain

TECHNICAL DATASHEET

Low-Voltage Solar Battery 5 kWh

BXB 5KLV- G2 // RESIDENTIAL USE

Low-voltage 51.2 V lithium iron phosphate battery with 5.12 kWh capacity, designed for residential solar energy storage and backup during grid outages. Its compact design and flexible wall or floor mounting make it ideal for spaces with limited room or loadbearing capacity. 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.



- 5.12 kWh LFP module, expandable up to 20.48 kWh with 4 in parallel.
- 1C charging and discharging, up to 100 A per module.
- Long service life: ≥ 6,000 cycles and 10+ years.
- IP65 protection for indoor and outdoor installation.
- Compact design for wall or floor mounting.
- Intelligent BMS with automatic addressing and remote monitoring.

FEATURES

IP65 OUTDOOR | SAFE BMS | 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 5KLV-G2	3×BXB 5KLV-G2	4×BXB 5KLV-G2	BXB 5KLV-G2
BATTERY SYSTEM				
Total Energy	10.24kWh	15.36kWh	20.48kWh	5.12kWh
Number of Modules	2	3	4	1
Battery Module	51.2V / 100Ah / 5.12kWh			
Cell Type	LFP (LiFePO4)			
Nominal Voltage	51.2V			
Operating Voltage Range	40V - 58.4V			
Max. Charge/Discharge Current	200A	260A	260A	100A
Continuous Discharge Output	10.24kW	13.312kW	13.312kW	5.12kW
Recommended Depth of Discharge	90%			
Cycle Life	≥ 6,000 cycles (80% DOD, 70% EOL, 25°C), 10+ years			
GENERAL				
Dimensions per Module (WxDxH)	500mm x 160mm x 660mm			
Approximate Weight	98.2kg	147.3kg	196.4kg	49.1kg
Ingress Protection Degree	IP65			
Operating Temperature Range	Charge: 0°C ~ 55°C / Discharge: -20°C ~ 55°C With optional heating film: Charge: -20°C ~ 55°C / Discharge: -20°C ~ 55°C			
Storage Temperature	0°C ~ 35°C			
Relative Humidity	≤ 95%			
Max. Operation Altitude	≤ 3,000m			
Mounting	Wall / Floor			
HMI & COM				
LED Indicator	4 LED SOC (25% - 100%, blue), 2 LED status (working green, alarm red)			
Communication Interface	CAN			
CERTIFICATION				
Standards	UN38.3, EMC			

NOTES

Remarks: · The charge/discharge current is affected by temperature and SOC. · The heating film is optional. · For parallel operation, a combiner box can be used. · Installation must be carried out by qualified personnel. · Specifications are subject to change without advance notice.