

BESS-60KW/112KWH

BES-H56X112

The BES-H56X112 is a versatile energy solution designed for large residential complexes, retail spaces, agricultural sites, and small-scale industrial applications. It integrates power generation, conversion, storage, and utilization into a single, robust system. With high-performance hardware and advanced IoT software, the BES-H56X116 supports various operational modes, including self-consumption, time-of-use (TOU) optimization, and backup power. This flexible system is engineered to meet daily energy needs and can easily integrate with additional equipment, such as diesel generators, to enhance grid stability, security, and cost-effectiveness for end-users.

Easy Installation

- Cost-effective Installation: Plug and play, pre-assembled, simplifies on-site setup, saves time and labor.
- Diesel Generator Compatibility: Direct connection to generators without the need for an ATS box, offers flexible power configuration.

Efficient and Reliable

- Flexible Over-Config: Supports 200% PV over-configuration, efficiently uses solar energy, ensures long-term system operation.
- Seamless Switching: Supports smooth switching between grid and off-grid, ensures continuous and stable power supply to key equipment.

Safe and Worry-free

- Fire Protection: Optional AFCI to effectively prevent fire risks caused by arc faults, ensures system safety.
- Multi-layer Protection: Supports battery health alerts and multi-layer protection mechanisms, ensures safety and stability during operation.

Smart Management

- Intelligent Monitoring: 24/7 monitoring via APP and cloud platform, allows users to monitor equipment status in real-time, enables remote management.
- Intelligent Maintenance: Supports remote troubleshooting and maintenance, reduces on-site repair needs and labor costs, avoids expert visits.



*Outdoor, IP55(cabinet)+IP66(inverter)

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BESS

Model	BES-H56X112
DC Parameters	
Max. PV Array Power	120 kWp
Max. PV Input Voltage	1100 V
Nominal Input Voltage	620 V
MPPT voltage range	150 – 1000 V
Max. PV Current	45A / 45A / 45A / 45A / 45A
Max. Short Circuit Current	56.5A / 56.5A / 56.5A / 56.5A / 56.5A
No. of MPPTs/Strings per MPPT	5 / 2
AC Parameters	
Rated output power	60 kW
Max. apparent power	66 kVA
Nominal AC voltage	3W+N+PE, 380V, 400V,415V
Nominal AC frequency	50 Hz / 60 Hz
Rated output current	90.9 A
Max. output current	100.0 A
Adjustable Power Factor range	~1 (0.8 lagging to 0.8 leading)
Peak Output Apparent Power (10s)	80 kVA
THDi (rated power)	< 3%
Battery Parameters	
Battery Type	LiFePO4
Rated Capacity	314 Ah
Rated Battery Voltage	358.4 V
Rated Energy	112 kWh
Max. Charging/Discharging Current	160 A
System Parameters	
Depth of Discharge	90%
Operating Temperature	-30°C to +55°C
Operating Humidity	0%- 95% (non-condensation)
Operating Altitude	2000m
Warranty	10 Years @70%SOH, 25°C, 0.5P
Communication	RS485 / Wi-Fi / Ethernet /CAN
Temperature Control Mode	Smart air cooling
Noise	< 70dB
Ingress Protection	Cabinet: IP55; Inverter: IP66
Dimension(W*H*D)	≤1000*2100*1100 mm
Weight	≤1400 kg