LIVOLTEK

BESS-30KW/60KWH

BHF-X60

The BHF-X60 cabinet can meet the energy needs of large residences and small businesses. Supports up to 200% PV oversizing capacity to ensure sufficient power and reduce dependence on the grid, thus saving costs. It supports 0.5C lithium-ion battery charging and discharging, and supports self-use mode, time-of-use mode and backup mode, which can flexibly adapt to different power strategies. The BHF-X60 cabinet is equipped with an integrated AC junction box, providing a unified wiring interface, which simplifies installation and deployment. In the case of unstable or no power grid, the built-in ATS switch can directly connect to the diesel generator to ensure the continuity and reliability of power supply.

Economical Investment

- Easy Installation: Unified built-in wiring box, factory pre-assembly and collective wiring design reduces 20% on-site installation time
- Affordable Upgrade: System scale-up requires no extra device due to integrated AC combiner box

Reliable Safety

- Comprehensive Protection: Cell health alerts, multilayer protection and multiple safeguards to ensure system operation safety
- Seamless Transition: Reliable power supply with uninterrupted grid-to-off-grid switching for complex loads scenario

Versatile Application

- Flexible Scalability: Modular design, flexible expansion for 6 x system (BHF-X60) or 5x battery cabinet only
- Strong Compatibility: Supports 2x PV over configuration and able to integrated with ESS and diesel generators without extra device

Convenient Maintenance

- Real-time Monitoring: 24/7 system status updates via APP and cloud
- Easy Maintenance: Remote diagnostics and intelligent maintenance reduces on-site servicing time and labor cost

BESS-30KW/60KWH

BESS

BHF - X60

Model	BHF-X60
DC Input	
Max. PV Array Power[Wp]	60000
Max. DC Voltage[V]	1000
MPPT Voltage Range[V]	150 ~ 950
Rated DC Voltage[V]	600
Start Voltage[V]	180
Max. DC Input Current[A]	32 / 32 / 32
Max. DC Short Circuit Current[A]	40 / 40 / 40
Number of String per MPPT	2 / 2 / 2
Battery Parameter	
Battery Type	LFP
Rated Energy[kWh]	60
Max. Charging/Discharging Current[A]	50/50
AC Output [On-grid]	
Rated AC Power[kW]	30
Max. Apparent Power[kVA]	30
Max. Output Current [A]@220V	45.5
Rated AC Voltage[V]	3W + N + PE, 380/400/415
Rated Output Frequency [Hz]	50 / 60
Power Factor[cos Φ]	Adjustable from 0.8 Leading to 0.8 Lagging
Total Harmonic Distortion [THDi]	< 3%
AC Input [On-grid]	
Rated AC Voltage [V]	3W + N + PE, 380/400/415
Rated Output Frequency [Hz]	50 / 60
Max. AC Input Power[kW]	40
Max. Input Current [A]	58
AC Output [Back-up]	
Rated Output Power [kW]	30
Max. Apparent Power[kVA]	33
Peak Output Apparent Power [kVA](10s)	39.3
Rated AC Voltage [V]	3W + N + PE, 380/400/415
Rated Output Frequency [Hz]	50 / 60
Output THDv (@ Liner Load)	< 2%
AC Input [Generator]	
Max. Input Power [kW]	40
Max. Input Current [A]	58
Rated Input Voltage [V]	3W + N + PE, 380/400/415
Rated Input Frequency[Hz]	50 / 60
Protection	
PV Reverse Polarity Protection	Integrated
Anti -islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
DC switch	Integrated
AC/DC Surge Protection	II / II
AFCI	Optional
System Parameters	
Max. Efficiency of System	90%@0.25P, 88%@0.5P
Depth of Discharge	90%
Operating Temperature[˚C]	-20 ~ 55
Operating Humidity	5% ~ 95% (non -condensing)
Operating Altitude[m]	4000 (>2000 derating)
Warranty[years]	5 @70%SOH, 25˚C, 0.5P
Communication	RS485 / Wi -Fi / DO / DI
Auxiliary Power Supply[Vac]	220
Temperature Control Mode	Forced Cooling
Noise[dB]	< 70
Ingress Protection	IP54
Dimension(W*H*D)[mm]	722*1970*940 mm
Weight[kg]	≤ 850