

BRES SERIES

BRES-2400-1250

SKS

The BRES Series combines battery storage, power conversion, battery management, safety, and thermal control in a compact, all-in-one outdoor energy storage system. Its modular plug-and-play design allows flexible capacity expansion, while long-life lithium iron phosphate (LFP) batteries and advanced protection systems ensure safe, reliable, and highly efficient performance for commercial and industrial applications.



INTELLIGENT INTEGRATED ENERGY STORAGE SOLUTIONS

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Illustration only

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AC PARAMETERS (GRID-CONNECTED)

Mode	BRES-2400-1250
Rated output power (kW)	1,250
Rated grid voltage (V)	3W + N + PE, 380/400 V
Grid voltage range (%)	-15% to +10%
Rated grid frequency (Hz)	50/60
Grid frequency range (Hz)	±2
Output current harmonics	≤3% at rated power
DC component	<0.5% I _n
Power factor range	-0.9 to +0.9

AC PARAMETERS (OFF-GRID)

Rated output power (kW)	1,250
Maximum output power (kW)	1,312
Rated output voltage (V)	3W + N + PE, 380/400 V
Output voltage harmonic distortion	3% at full linear load
Rated frequency (Hz)	50/60
Overload capacity	≤105%: continuous operation; >105% to 120%: 10 min; >120%: shutdown

BATTERY PARAMETERS

Cell type	lithium iron phosphate (LFP)
Capacity per battery cabinet (kWh)	241.1
Number of battery cabinets	10
Capacity of battery system (kWh)	2,411.5
Rated operating duration (h)	2 (expandable via battery modules)
Battery life	>10,000 cycles (0.5 P, 25 ± 2°C, 100% DOD, 80% SOH)
Maximum efficiency	93% (0.5P)

BASIC PARAMETERS

Dimensions (W x D x H)(mm)	12,192 x 2,438 x 2,591
Weight (kg)	28,000
Isolation method	built-in isolation transformer
On-grid/off-grid switching device	electrically operated
Protection class	outdoor, IP54
Operating temperature range	-20°C to 55°C (derating above 45°C)
Relative humidity	0-95% RH (non-condensing)
Temperature Control Method	Battery cabinet: air-conditioned / PCS cabinet: air-cooled
Maximum operating altitude (m)	≤4,000 (derating above 2,000 m)
Display	HMI
Communication interface	RS485, LAN
Communication protocol	Modbus RTU, Modbus TCP

Note: Actual dimensions and weight may vary slightly. Please refer to the delivered product.

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