

# BRES SERIES

## BRES-240-125

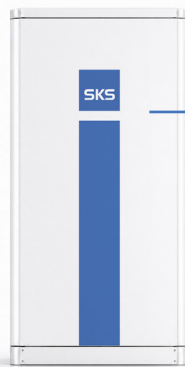
**SKS**

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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## BRES-240-125

**SKS**

Illustration only

### BATTERY PARAMETERS

| Model                         | BRES-240-125                                       |
|-------------------------------|----------------------------------------------------|
| Energy storage capacity (kWh) | 240                                                |
| System voltage (V)            | 768                                                |
| Operating voltage range (V)   | DC 672-876 V (2.8-3.65 V)                          |
| Battery type                  | LFP                                                |
| Number of cycles              | 10,000 cycles (0.5 P, 25 ± 2°C, 100% DOD, 80% SOH) |
| Maximum efficiency            | 93% (0.5P)                                         |

### PCS PARAMETERS

|                              |                                    |                      |
|------------------------------|------------------------------------|----------------------|
| DC side parameters           | Voltage range (V)                  | DC 650-900 V         |
|                              | DC channel                         | 1                    |
|                              | Single-channel current rating (A)  | 163                  |
|                              | Single-channel max. current (A)    | 215                  |
| AC grid-connected parameters | Output line system                 | 3W3P+PE              |
|                              | Rated power (kW)                   | 125                  |
|                              | Rated voltage (V)                  | AC 380               |
|                              | Current rating (A)                 | 181                  |
|                              | Voltage range (%)                  | -15% ~ +10%          |
|                              | Rated frequency (Hz)               | 50/60                |
|                              | Frequency range (Hz)               | ±2                   |
|                              | Power factor                       | 1                    |
|                              | Output voltage harmonic distortion | ≤3%                  |
|                              | AC current distortion rate         | <3% (at rated power) |
| Protection                   | Reverse-polarity protection        | YES                  |
|                              | Output overcurrent                 | YES                  |
|                              | Output overvoltage                 | YES                  |

### BASIC PARAMETERS

|             |                            |                                                                                                                    |
|-------------|----------------------------|--------------------------------------------------------------------------------------------------------------------|
| Environment | Operating temperature      | -20°C to 55°C (derating above 45°C for PCS system)<br>(Battery system: Charge 0 to 50°C, Discharge: -10°C to 55°C) |
|             | Storage temperature        | -20°C ~ 45°C                                                                                                       |
|             | Relative humidity          | 0-95% RH (non-condensing)                                                                                          |
|             | Working altitude (m)       | 4,000 (derating above 2,000 m)                                                                                     |
|             | Noise level                | <70 dB                                                                                                             |
| Other       | Communication interfaces   | CAN/RS485                                                                                                          |
|             | Isolation method           | NO                                                                                                                 |
|             | IP rating                  | IP54                                                                                                               |
|             | Cooling method             | Battery cabinet: air-conditioned / PCS cabinet: air-cooled                                                         |
|             | Fire suppression system    | aerosol                                                                                                            |
|             | Weight (kg)                | 2500                                                                                                               |
|             | Dimensions (W x D x H)(mm) | 1,600 x 1,330 x 2,250                                                                                              |

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

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