
StorEdge[®] Three Phase Inverter

SE5K-RWS / SE7K-RWS / SE8K-RWS / SE10K-RWS



STOREDGE[®]

Ideal solution for three phase installations with battery storage

- Simple installation with single inverter for managing both PV production and battery storage
- More energy using DC-coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Designed to eliminate high voltage during installation, maintenance or firefighting for enhanced safety
- Built-in module-level monitoring and full visibility of battery status, PV production, and self-consumption data
- Allows connection of low voltage 48V batteries from multiple battery vendors to provide greater flexibility

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| | SE5K-RWS | SE7K-RWS | SE8K-RWS | SE10K-RWS | |
|--|--|----------|----------|-----------|-----|
| Applicable for inverters with part number | SEXK-XXS48XXXX | | | | |
| OUTPUT | | | | | |
| Rated AC Power Output | 5000 | 7000 | 8000 | 10000 | VA |
| Maximum AC Power Output | 5000 | 7000 | 8000 | 10000 | VA |
| AC Output Voltage — Line to Line / Line to Neutral (Nominal) | 380/220 ; 400/230 | | | | Vac |
| AC Output Voltage — Line to Neutral Range | 184 - 264.5 | | | | Vac |
| AC Frequency | 50/60 ± 5 | | | | Hz |
| Maximum Continuous Output Current (per Phase) | 8 | 11.5 | 13 | 16 | A |
| Residual Current Detector / Residual Current Step Detector | 300 / 30 | | | | mA |
| Grids Supported — Three Phase | 3 / N / PE (WYE with Neutral) | | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | | |
| INPUT PV | | | | | |
| Maximum DC Power (Module STC) | 6750 | 9450 | 10800 | 13500 | W |
| Transformer-less, Ungrounded | Yes | | | | |
| Maximum Input Voltage | 900 | | | | Vdc |
| Nominal DC Input Voltage | 750 | | | | Vdc |
| Maximum Input Current | 8.5 | 12 | 13.5 | 16.5 | Adc |
| Reverse-Polarity Protection | Yes | | | | |
| Ground-Fault Isolation Detection | 700kΩ Sensitivity | | | | |
| Maximum Inverter Efficiency | 98 | | | | % |
| European Weighted Efficiency | 97.3 | 97.4 | 97.6 | | % |
| Nighttime Power Consumption | < 2.5 | | | | W |
| INPUT BATTERY | | | | | |
| Maximum DC Power | 5000 | | | | W |
| Input Voltage Range | 40- 62 | | | | Vdc |
| Maximum Continuous Input Current | 130 | | | | Adc |
| Battery Communication | CAN, RS485 (optional) | | | | |
| ADDITIONAL FEATURES | | | | | |
| Supported Communication Interfaces | 2 x RS485, Ethernet, Zigbee communications for Smart Energy ⁽¹⁾ , Wi-Fi ⁽²⁾ , Built-in cellular (optional) | | | | |
| STANDARD COMPLIANCE | | | | | |
| Safety | IEC-62109 | | | | |
| Grid Connection Standards ⁽³⁾ | VDE 0126-1-1, VDE-AR-N-4105, G98 / G99 | | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12 | | | | |
| RoHS | Yes | | | | |
| INSTALLATION SPECIFICATIONS | | | | | |
| AC Output – Cable Gland Diameter | 15 - 21 | | | | mm |
| Battery DC – Cable Gland Diameter | 2 x 8-11 | | | | mm |
| PV DC Input | 2 x MC4 pair | | | | |
| Dimensions (HxWxD) | 853 x 316 x 193 | | | | mm |
| Weight | 37 | | | | kg |
| Operating Temperature Range | -40 - +60 | | | | °C |
| Cooling | Internal and external fans | | | | |
| Noise | < 50 | | | | dBA |
| Protection Rating | IP65 — Outdoor and Indoor | | | | |
| Mounting | Bracket provided | | | | |

⁽¹⁾ For more information refer to: <https://www.solaredge.com/sites/default/files/se-zigbee-plug-in-wireless-communication-for-setapp-datasheet.pdf>

⁽²⁾ Wi-Fi connectivity requires an external antenna. For more information refer to: <https://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf>

⁽³⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>