
Three Phase Inverter

SE3K - SE10K



INVERTERS

Specifically designed to work with power optimizers

- // Noise level suitable for residential environments – No external fan
- // Superior efficiency (98%)
- // Small, lightest in its class, and easy to install
- // Built-in module-level monitoring
- // Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- // Internet connection through Ethernet or Wireless (Wi-Fi, ZigBee Gateway, Cellular)
- // IP65 – Outdoor and indoor installation
- // Fixed voltage inverter for longer strings
- // Smart Energy Management control

/ Three Phase Inverter

SE3K-SE10K⁽¹⁾

| | SE3K ⁽²⁾⁽³⁾ | SE4K ⁽²⁾ | SE5K | SE6K ⁽²⁾ | SE7K | SE8K | SE9K | SE10K | UNITS |
|--|---|---------------------|------|---------------------|------|-------|-------|-------|-------|
| Applicable to inverters with part number | SEXK-XXXTBXX4 | | | | | | | | |
| OUTPUT | | | | | | | | | |
| Rated AC Power Output | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 10000 | VA |
| Maximum AC Power Output | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 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) | 5 | 6.5 | 8 | 10 | 11.5 | 13 | 14.5 | 16 | A |
| Grids Supported - Three Phase | 3 / N / PE (WYE with Neutral) | | | | | | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | | | | | | |
| INPUT | | | | | | | | | |
| Maximum DC Power (Module STC) | 4050 ⁽⁴⁾ | 5400 | 6750 | 8100 | 9450 | 10800 | 12150 | 13500 | W |
| Transformer-less, Ungrounded | Yes | | | | | | | | |
| Maximum Input Voltage | 900 | | | | | | | | Vdc |
| Nominal DC Input Voltage | 750 | | | | | | | | Vdc |
| Maximum Input Current | 5 | 7 | 8.5 | 10 | 12 | 13.5 | 15 | 16.5 | Adc |
| Reverse-Polarity Protection | Yes | | | | | | | | |
| Ground-Fault Isolation Detection | 700kΩ Sensitivity | | | | | | | | |
| Maximum Inverter Efficiency | 98 | | | | | | | | % |
| European Weighted Efficiency | 96.7 | 97.3 | 97.3 | 97.3 | 97.4 | 97.6 | 97.5 | 97.6 | % |
| Nighttime Power Consumption | < 2.5 | | | | | | | | W |
| ADDITIONAL FEATURES | | | | | | | | | |
| Supported Communication Interfaces ⁽⁵⁾ | RS485, Ethernet, ZigBee (optional), Wi-Fi (requires antenna) ⁽⁶⁾ , Cellular (optional) | | | | | | | | |
| Smart Energy Management | Export Limitation, Home Energy Management (Device Control) | | | | | | | | |
| Inverter Commissioning | With the SetApp mobile application using built-in Wi-Fi access point for local connection | | | | | | | | |
| STANDARD COMPLIANCE | | | | | | | | | |
| Safety | IEC-62103 (EN50178), IEC-62109 | | | | | | | | |
| Grid Connection Standards ⁽⁷⁾ | VDE 0126-1-1, VDE-AR-N-4105, AS-4777, G83 / G59 | | | | | | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B | | | | | | | | |
| RoHS | Yes | | | | | | | | |
| INSTALLATION SPECIFICATIONS | | | | | | | | | |
| AC Output | Cable Gland - diameter 15-21 | | | | | | | | mm |
| DC Input | 2 MC4 pairs | | | | | | | | |
| Dimensions (HxWxD) | 540 x 315 x 191 | | | | | | | | mm |
| Weight | 16.4 | | | | | | | | kg |
| Operating Temperature Range | -40 to +60 ⁽⁸⁾ | | | | | | | | °C |
| Cooling | Internal Fan | | | | | | | | |
| Noise | < 40 | | | | | | | | dBA |
| Protection Rating | IP65 - Outdoor and Indoor | | | | | | | | |
| Mounting | Bracket Provided | | | | | | | | |

⁽¹⁾ For higher power models refer to: <https://www.solaredge.com/sites/default/files/se-three-phase-inverter-extended-power-datasheet.pdf>

⁽²⁾ Available in some countries; refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽³⁾ SE3K-RW010BNN4 is dedicated for connection of exactly 10 P404/P405/P485/P505 optimizers.

⁽⁴⁾ Maximum allowed DC power is 3700W with SE3K-RW010BNN4

⁽⁵⁾ Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>

⁽⁶⁾ 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>

⁽⁷⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁸⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>