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# 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<sup>(1)</sup>

|  | SE3K <sup>(2)(3)</sup>  | SE4K <sup>(2)</sup> | SE5K | SE6K <sup>(2)</sup> | SE7K | SE8K  | SE9K  | SE10K | UNITS |
|--|---|---------------------|------|---------------------|------|-------|-------|-------|-------|
| Applicable to inverters with part number   | SEXK-XXXTBXX4   |                     |      |                     |      |       |       |       |       |
| <b>OUTPUT</b>  |   |                     |      |                     |      |       |       |       |       |
| 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   |                     |      |                     |      |       |       |       |       |
| <b>INPUT</b>   |   |                     |      |                     |      |       |       |       |       |
| Maximum DC Power (Module STC)  | 4050 <sup>(4)</sup>   | 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     |
| <b>ADDITIONAL FEATURES</b>   |   |                     |      |                     |      |       |       |       |       |
| Supported Communication Interfaces <sup>(5)</sup>  | RS485, Ethernet, ZigBee (optional), Wi-Fi (requires antenna) <sup>(6)</sup> , 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         |                     |      |                     |      |       |       |       |       |
| <b>STANDARD COMPLIANCE</b>   |   |                     |      |                     |      |       |       |       |       |
| Safety   | IEC-62103 (EN50178), IEC-62109  |                     |      |                     |      |       |       |       |       |
| Grid Connection Standards <sup>(7)</sup>   | 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   |                     |      |                     |      |       |       |       |       |
| <b>INSTALLATION SPECIFICATIONS</b>   |   |                     |      |                     |      |       |       |       |       |
| 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 <sup>(8)</sup>   |                     |      |                     |      |       |       |       | °C    |
| Cooling  | Internal Fan  |                     |      |                     |      |       |       |       |       |
| Noise  | < 40  |                     |      |                     |      |       |       |       | dBA   |
| Protection Rating  | IP65 - Outdoor and Indoor   |                     |      |                     |      |       |       |       |       |
| Mounting   | Bracket Provided  |                     |      |                     |      |       |       |       |       |

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

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

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

<sup>(4)</sup> Maximum allowed DC power is 3700W with SE3K-RW010BNN4

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

<sup>(6)</sup> 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>

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

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