

Three Phase Inverters For India

SE10K - SE33.3K



Specifically designed to work with power optimizers

- / Superior efficiency (98.3%)
- / Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- / Small, lightest in its class, and easy to install
- / Built-in module-level monitoring
- / Internet connection through Ethernet or Wireless
- / IP65 – Outdoor and indoor installation
- / Fixed voltage inverter for longer strings
- / Smart Energy Management control
- / Optional integrated DC Safety Unit – eliminates the need for external DC isolators
- / Advanced safety features – integrated arc fault protection and optional rapid shutdown
- / Optional DC surge protection and DC fuses

⁽¹⁾ For inverter model SE10K warranty is 5 years

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| Applicable to inverters with part number | SEXK-INXXBXX4 | | | SEXK-INXXIBXX4 | | Unit |
|--|--|-------|------------|--|---------|------|
| | SE10K | SE15K | SE17K | SE27.6K | SE33.3K | |
| OUTPUT | | | | | | |
| Rated AC Power Output | 10000 | 15000 | 17000 | 27600 | 33300 | W |
| Maximum AC Power Output | 10000 | 15000 | 17000 | 27600 | 33300 | VA |
| AC Output Voltage - Line to Line / Line to Neutral (Nominal) | 400 / 230 | | | | | Vac |
| AC Output Voltage – Line to Line / Line to Neutral Range | 320 – 478 / 180 – 276 | | | | | Vac |
| AC Frequency | 50 / 60 ± 5 | | | | | Hz |
| Maximum Continuous Output Current (per Phase) | 16 | 23 | 26 | 40 | 48.25 | A |
| Grids Supported - Three Phase | 3 / N / PE (WYE with Neutral) | | | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | | | |
| THD | ≤ 3 | | | | | % |
| Power Factor Range | +/- 0.8 to 1 | | | | | |
| Maximum Residual Current Injection ⁽¹⁾ | N/A | | | 100 | | mA |
| INPUT | | | | | | |
| Maximum DC Power (Module STC) | 13500 | 22500 | 22950 | 48300 | 58275 | W |
| Transformer-less, Ungrounded | Yes | | | | | |
| Maximum Input Voltage | 1000 | | | | | Vdc |
| Operating Voltage Range | 680 – 950 | | 680 – 1000 | | | Vdc |
| Maximum Input Current | 16.5 | 22 | 23 | 40 | 48.25 | Adc |
| Reverse-Polarity Protection | Yes | | | | | |
| Ground-Fault Isolation Detection | 700kΩ Sensitivity | | | 167kΩ Sensitivity ⁽²⁾ | | |
| Maximum Inverter Efficiency | 97.6 | 98 | | 98.3 | | % |
| European Weighted Efficiency | 97.7 | | | 98 | | % |
| Nighttime Power Consumption | < 2.5 | | | < 4 | | W |
| ADDITIONAL FEATURES | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, Wi-Fi (requires antenna) ⁽³⁾ | | | 2 x RS485, Ethernet, Wi-Fi (requires antenna) ⁽³⁾ | | |
| Smart Energy Management | Export Limitation | | | | | |
| Inverter Commissioning | With the SetApp mobile application using built-in Wi-Fi access point for local connection | | | | | |
| Arc Fault Protection | Integrated, User Configurable (According to UL1699B) | | | | | |
| RS485 Surge Protection | Optional ⁽⁴⁾ | | | Provided | | |
| DC Surge Protection | N/A | | | Type II, field replaceable, optional | | |
| AC Surge Protection | N/A | | | Type II, field replaceable, optional | | |
| DC SAFETY UNIT (OPTIONAL) | | | | | | |
| DC Disconnect | N/A | | | Integrated in the DC Safety Unit | | |
| DC Fuses (Single Pole) | N/A | | | Optional, 25A | | |
| STANDARD COMPLIANCE | | | | | | |
| Safety | IEC-62103 (EN50178), IEC-62109, AS3100 | | | IEC-62109-1, IEC-62109-2 | | |
| Grid Connection Standards ⁽⁵⁾ | VDE-AR-N-4105, G59/3, AS-4777, EN 50438, CEI-021, VDE 0126-1-1, CEI-016, BDEW VDE-AR-N-4105, VDE-AR-N-4110, AS-4777, EN 50549-1, EN 50549-2, CEI-021, VDE 0126-1-1, CEI-016, IEC61727, IEC 62116 | | | | | |
| Other | BIS, IEC61683, IEC61000-1, IEC61000-2, IEC61000-14, IEC61000-30, IEC60529 | | | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12 | | | | | |
| RoHS | Yes | | | | | |

(1) If an external RCD is required, its trip value must be ≥ 100mA.

(2) Where permitted by local regulations.

(3) 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>.

(4) An SPD plug-in can be purchased. Refer to: <https://www.solaredge.com/products/communication/RS485-surge-protection-device#/>.

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

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| Applicable to inverters with part number | SEXXK-INXXXBXX4 | | | SEXXK-INXXIBXX4 | | Unit |
|--|--|--|---|--|---------|------|
| | SE10K | SE15K | SE17.K | SE27.6K | SE33.3K | |
| INSTALLATION SPECIFICATIONS | | | | | | |
| AC Output Gland Diameter / Line Cross Section / PE Cross Section | 15 – 21 mm / Solid wire 2.5 – 16 mm ² | 15 – 21 mm / Solid wire 2.5 – 16 mm ² , Stranded wire 2.5 – 10 mm ² | 18 – 25mm / Solid wire 2.5 – 16 mm ² , Stranded wire 2.5 – 10 mm ² | Cable diameter 19 – 28 mm / 4 – 16 mm ² / 4 – 16 mm ² | | |
| DC Input ⁽⁶⁾ | 2 MC4 pairs | | | 4 MC4 pairs | | |
| Dimensions (H x W x D) | 540 x 315 x 191 | 540 x 315 x 260 | | 558 x 328 x 273 | | mm |
| Weight | 16.4 | 30.7 | | 32 | | kg |
| Operating Temperature Range | -40 to +60 ⁽⁷⁾ | | | | | °C |
| Cooling | Internal fan | Fan (user replaceable) | | | | |
| Noise | < 50 | | < 55 | < 62 | | dBA |
| Protection Rating | IP65 – indoor and outdoor | | | | | |
| Mounting | Bracket provided | | | | | |




(6) Only MC4 connectors manufactured by Stäubli are approved for use

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

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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