Three Phase Inverter

SE25K / SE33.3K / SE40K



INVERTERS

Specifically designed to work with power optimizers

- Fixed voltage inverter for superior efficiency (98.3%) and longer strings
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Small, lightest in its class, and easy to install
- Optional RS485 and type 2 DC and AC Surge Protection, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet, wireless or cellular communication (optional) for full system visibility
- IP65 Outdoor and indoor installation
- Optional integrated DC Safety Unit eliminates the need for external DC isolators
- Future-ready for SolarEdge energy storage solution



/ Three Phase Inverter

SE25K / SE33.3K / SE40K

| Applicable to inverters with part number | SEXXK-RWXXIXXXX | | | |
|--|--|---|-------------------------|--------|
| | SE25K SE33.3K SE40K | | | |
| OLITRUIT | 3223K | 5255.51t | 32 1010 | |
| OUTPUT | 05000 | 2222 | 10000 | |
| Rated AC Active Power Output | 25000 | 33300 | 40000 | W |
| Maximum AC Apparent Output Power | 25000 | 33300 | 40000 | VA |
| AC Output Voltage - Line to Line / Line to Neutral (Nominal) | | 0;400/230 | 480 / 277 | Va |
| AC Output Voltage - Line to Line / Line to Neutral | 304 - 437 / 1/6 - 253 | ; 320 - 478 / 184 - 264.5 | 422.5 - 529 / 244 - 305 | Va |
| AC Frequency | 25.05 | 50/60 ± 5% | 10.05 | Hz |
| Maximum Continuous Output Current (per Phase) | 36.25 48.25 | | | Aa |
| AC Output Line Connections | 3W + PE, 4W + PE | | | |
| Supported Grids | WYE: TN-C, TN-S, TN-C-S, TT, IT; Delta: IT | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | | Yes | | |
| Total Harmonic Distortion | | <u><</u> 3 | | % |
| Power Factor Range | +/-0.2 to 1 | | | /0 |
| Maximum Residual Current Injection ⁽¹⁾ | 100 | | | m/ |
| INPUT | | 100 | | 1117 |
| Maximum DC Power (Module STC) | 43750 | 58275 | 70000 | V |
| Transformer-less, Ungrounded | 43/30 | | 70000 | V |
| Maximum Input Voltage DC+ to DC- | Yes 1000 | | | 1/0 |
| | 1000 680 - 1000 | | | Vo |
| Operating Voltage Range Maximum Input Current | 36.25 | 680 - 1000 | 48.25 | Vo |
| | 30.23 | Yes | 40.23 | A |
| Reverse-Polarity Protection Ground-Fault Isolation Detection | | res 167kΩ Sensitivity ⁽²⁾ | | |
| | | | 00.1 | 0/ |
| Maximum Inverter Efficiency | | 98.3 | 98.1 | % |
| European Weighted Efficiency | | 98 < 4 | | % W |
| Nighttime Power Consumption ADDITIONAL FEATURES | | < 4 | | V |
| | 1 | DC405 MEET COLUMN BOOK A | | |
| Supported Communication Interfaces ⁽³⁾ | 2 x RS485, Wi-Fi (optional), Cellular (optional) | | | |
| Smart Energy Management | Export Limitation With the SetApp mobile application using built in Wi. Figscore point for local connection | | | |
| Inverter Commissioning | With the SetApp mobile application using built-in Wi-Fi access point for local connection | | | |
| Arc Fault Protection | Built-in, User Configurable (According to UL1699B) | | | |
| Rapid Shutdown | Optional ⁽⁴⁾ (Automatic upon AC Grid Disconnect) | | | |
| RS485 Surge Protection | Optional Type II field real seable, antique | | | |
| DC Surge Protection | Type II, field replaceable, optional | | | |
| AC Surge Protection | | Type II, field replaceable, optic | onal | |
| DC SAFETY UNIT (OPTIONAL) | | | | 1 |
| DC Disconnect | Integrated in the DC safety unit | | | |
| DC Fuses (Single Pole) | | Optional, 25A | | |
| STANDARD COMPLIANCE | | | | , |
| Safety | IEC-62109-1, IEC-62109-2 | | | |
| Grid Connection Standards ⁽⁵⁾ | VDE-AR-N-4105, VDE-AR-N-4110, AS-4777, EN 50549-1, EN 50549-2, CEI-021, VDE 0126-1-1, CEI-016 | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12 | | | |
| RoHS | | Yes | | |
| INSTALLATION SPECIFICATIONS | | | | |
| AC Output Gland Diameter / Line cross section / PE cross section | Cable diameter 19 - 28 mm / 4 - 16 mm² / 4 - 16 mm² | | | |
| DC Input ⁽⁶⁾ | 4 MC4 pairs | | | |
| DC Input with Safety Unit | 4 Strings: Gland: Cable outer diameter 5 - 10 mm / Wire cross section 2.5 - 16mm ² | | | |
| Dimensions (H x W x D) | 558 x 328 x 273 | | | mr |
| Dimensions with Safety Unit (H x W x D) | 839 x 328 x 300 | | | mr |
| Weight | 32 | | | kg |
| Weight with Safety Unit | 36.5 | | | kg |
| Operating Temperature Range | -40 to +60 ⁽⁷⁾ | | | °(|
| Cooling | | Fan (user replaceable) | | |
| Noise | < 62 | | | dB |
| Protection Rating | | IP65 - outdoor and indoor | | |
| Mounting | | Brackets provided | | |

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

⁽²⁾ Where permitted by local regulations

 $^{(3) \} Refer to \ Datasheets -> Communications \ category \ on \ Downloads \ page \ for \ specifications \ of \ optional \ communication \ options: \ https://www.solaredge.com/products/communication \ optional \ communication \ options \ described \ optional \ op$

⁽⁴⁾ Inverters with rapid shutdown part number: SExxK-xxRxxxxxx

⁽⁵⁾ For all standards refer to Certifications category in Downloads page: https://www.solaredge.com/downloads#/
(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