

Three Phase Inverters for the 120/208V Grid For North America

SE10KUS / SE17.3KUS



The best choice for SolarEdge enabled systems

- / Specifically designed to work with power optimizers
- / Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- / Fixed voltage inverter for superior efficiency and longer strings
- / Built-in type 2 DC and AC Surge Protection, to better withstand lightning events
- / Small, lightest in its class, and easy to install outdoors or indoors on provided bracket
- / Integrated arc fault protection and rapid shutdown for NEC 2014, 2017, and 2020, per article 690.11 and 690.12
- / Built-in module-level monitoring with Ethernet, wireless or cellular communication for full system visibility
- / Integrated Safety Switch
- / UL1741 SA and SB certified, for CPUC Rule 21 grid compliance

/ Three Phase Inverters for the 120/208V Grid⁽¹⁾

For North America

SE10KUS / SE17.3KUS

| Model Number | SE10KUS | SE17.3KUS | |
|---|---|-----------|-----|
| Applicable to inverters with part number | SEXK-USX2IXXX | | |
| OUTPUT | | | |
| Rated AC Power Output | 10000 | 17300 | W |
| Maximum Apparent AC Output Power | 10000 | 17300 | VA |
| AC Output Line Connections | 3W + PE, 4W + PE | | |
| AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-N) | 105 – 120 – 132.5 | | |
| AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-L) | 183 – 208 – 229 | | |
| AC Frequency Minimum-Nominal-Maximum ⁽²⁾ | 59.3 – 60 – 60.5 | | |
| Continuous Output Current (per Phase) | 27.8 | 48.25 | Aac |
| GFDI Threshold | 1 | | |
| Utility Monitoring, Islanding Protection, Country Configurable Set Points | Yes | | |
| THD | ≤ 3 | | |
| Power Factor Range | +/- 0.85 to 1 | | |
| INPUT | | | |
| Maximum DC Power (Module STC) | 17500 | 30275 | W |
| Transformer-less, Ungrounded | Yes | | |
| Maximum Input Voltage DC+ to DC- | 600 | | |
| Operating Voltage Range | 370 – 600 | | |
| Maximum Input Current | 27.8 | 48.25 | Adc |
| Maximum Input Short Circuit Current | 55 | | |
| Reverse-Polarity Protection | Yes | | |
| Ground-Fault Isolation Detection | 167kΩ Sensitivity ⁽³⁾ | | |
| CEC Weighted Efficiency | 97 | 97.5 | % |
| Night-time Power Consumption | < 4 | | |
| ADDITIONAL FEATURES | | | |
| Supported Communication Interfaces | 2 x RS485, Ethernet, Cellular (optional) | | |
| Inverter Commissioning | With the SetApp mobile application using built-in Wi-Fi access point for local connection | | |
| Rapid Shutdown | NEC2014, NEC2017 and NEC2020 compliant/certified | | |
| RS485 Surge Protection Plug-in | Supplied with the inverter, Built-in | | |
| AC, DC Surge Protection | Type II, field replaceable, Built-in | | |
| DC Fuses (Single Pole) | 25A, Built-in | | |
| Smart Energy Management | Export Limitation | | |
| DC SAFETY SWITCH | | | |
| DC Disconnect | Integrated | | |
| STANDARD COMPLIANCE | | | |
| Safety | UL1741, UL1741 SA, UL1741 SB, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07 | | |
| Grid Connection Standards | IEEE1547-2018, Rule 21, Rule 14 (HI) | | |
| Emissions | FCC part15 class A | | |
| INSTALLATION SPECIFICATIONS | | | |
| AC Output Conduit size /AWG range | ¾" or 1" / 6 - 10 AWG | | |
| DC Input Conduit size / AWG range | ¾" or 1" / 6 - 12 AWG | | |
| Number of DC inputs pairs | 4 | | |
| Dimensions with Safety Switch (H x W x D) | 31.8 x 12.5 x 11.8 / 808 x 317 x 300 | | |
| Weight with Safety Switch | 78.2 / 35.5 | | |
| Cooling | Fans (user replaceable) | | |
| Noise | < 62 | | |
| Operating Temperature Range | -40 to +140 / -40 to +60(4) | | |
| Protection Rating | NEMA 3R | | |
| Mounting | Bracket provided | | |

(1) For 277/480V inverters refer to the [Three Phase Inverters for the 277/480V Grid for North America datasheet](#).

(2) For other regional settings please contact SolarEdge support.

(3) Where permitted by local regulations.

(4) For power de-rating information refer to the [Temperature De-rating - Technical Note \(North America\)](#).