

Three Phase Residential Inverter for Australia

SE5K-AUB / SE7K-AUB / SE8.25K-AUB / SE10K-AUB

INVERTERS



The ideal solution for residential PV installations

- Provides maximum design flexibility, enabling fewer, longer strings
- Supports optional smart energy devices and expansion of system capabilities
- Single vendor solution for seamless operation of all system components, and one address for warranty and service issues
- Built-in module-level monitoring for greater visibility into system performance
- Excellent reliability with standard 12-year warranty (extendable to 20 or 25 years)
- Advanced safety features, including SafeDC™ and integrated arc fault protection
- Quick inverter commissioning directly from a smartphone using SolarEdge's SetApp
- Suitable for outdoor or indoor installations

/ Three Phase Residential Inverter for Australia

SE5K-AUB / SE7K-AUB / SE8.25K-AUB / SE10K-AUB

| | SE5K-AUB | SE7K-AUB | SE8.25K-AUB | SE10K-AUB | |
|--|---|----------|-------------|-----------|-----|
| APPLICABLE TO INVERTERS WITH PART NUMBER SEXXX- AUBTXBNU4 | | | | | |
| OUTPUT | | | | | |
| Rated AC Power Output | 5000 | 7000 | 8250 | 10000 | VA |
| Maximum AC Power Output | 5000 | 7000 | 8250 | 10000 | VA |
| AC Output Voltage - Line to Line / Line to Neutral (Nominal) | 400 / 230 | | | | Vac |
| AC Output Voltage - Line to Neutral Range | 184 - 264.7 | | | | Vac |
| AC Frequency | 50 ± 5% | | | | Hz |
| Maximum Continuous Output Current (per Phase) | 8 | 11.5 | 13.5 | 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) | 6750 | 9450 | 11135 | 13500 | W |
| Transformer-less, Ungrounded | Yes | | | | |
| Maximum Array Input Voltage | 450 | | | | Vdc |
| Maximum Voltage to Earth (DC to GND) | 450 | | | | Vdc |
| Maximum Input Current | 14 | 19.5 | 22 | 28 | Adc |
| Reverse-Polarity Protection | Yes | | | | |
| Ground-Fault Isolation Detection | 350kΩ Sensitivity | | | | |
| Maximum Inverter Efficiency | 97.8 | | | | % |
| European Weighted Efficiency | 96.3 | 97 | 97.1 | 97.4 | % |
| Nighttime Power Consumption | < 4 | | | | W |
| Short Circuit Current from the PV Array | 14 | 19.5 | 22 | 28 | Adc |
| ADDITIONAL FEATURES | | | | | |
| Supported Communication Interfaces ⁽¹⁾ | 2 x RS485, Ethernet, Wi-Fi ⁽²⁾ , ZigBee for Smart Energy (optional) ⁽³⁾ | | | | |
| Inverter Commissioning | With the SetApp mobile application using built-in Wi-Fi access point for local connection | | | | |
| Smart Energy Management ⁽⁴⁾ | Export Limitation, Home Energy Management (Device Control) | | | | |
| STANDARD COMPLIANCE | | | | | |
| Safety | IEC62109, AS/NZS3100 | | | | |
| Grid Connection Standards | AS/NSZ 4777.2:2015, EN 50549-1 | | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12 | | | | |
| RoHS | Yes | | | | |
| INSTALLATION SPECIFICATIONS | | | | | |
| AC Output Conduit Size / Wire Cross Section | 20mm minimum / 3-13mm ² | | | | |
| DC Input Conduit Size / Wire Cross Section | 20mm conduit size minimum | | | | |
| DC Input | Single DC terminal block | | | | |
| Dimensions with Safety Switch (H x W x D) | 775 x 315 x 260 | | | | mm |
| Weight | 30 | | | | kg |
| Operating Temperature Range | -40 to +60 ⁽⁵⁾ | | | | °C |
| Cooling | Fan (user replaceable) | | | | |
| Noise | < 50 | | | | dBA |
| Protection Rating | IP65 - outdoor and indoor | | | | |
| Mounting | Bracket provided | | | | |
| Number of Power Optimisers per String | 8 ⁽⁶⁾ /9 to 25 | | | | |
| Maximum Power per String | 5625 | | | | W |

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

(2) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge sales person or refer to: <https://www.solaredge.com/aus/products/communication>

(3) For more information refer to: <https://www.solaredge.com/sites/default/files/se-zigbee-plug-in-wireless-communication-for-setapp-datasheet-au.pdf>

(4) An export meter is required for export limitation and most of home energy management functions

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

(6) When using P404/P485/P505 power optimisers only, minimum required per string is eight