

Three Phase Inverters for Residential Installations for Australia

SE5K-AU / SE7K-AU /
SE8K-AU



12-25
YEAR
WARRANTY

INVERTERS

Specifically designed to work with power optimisers

- / Noise level suitable for residential environment – No external fan
- / Superior efficiency (98%)
- / Small, lightest in its class, and easy to install
- / Built-in module-level monitoring
- / Integrated DC Safety Unit - Eliminates the need for external DC isolators
- / Internet connection through Ethernet or Wireless (via Wi-Fi, ZigBee, or Cellular plug-ins)
- / IP65 – Outdoor and indoor installation
- / Fixed voltage inverter for longer strings
- / Smart Energy Management control

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SE5K-AU⁽¹⁾ / SE7K-AU⁽¹⁾ / SE8K-AU⁽¹⁾

| | SE5K-AU | SE7K-AU | SE8K-AU | |
|--|--|---------|---------|-----|
| OUTPUT | | | | |
| Rated AC Power Output | 5000 | 7000 | 8000 | VA |
| Maximum AC Power Output | 5000 | 7000 | 8000 | VA |
| AC Output Voltage - Line to Line / Line to Neutral (Nominal) | 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) | 8 | 11.5 | 13 | A |
| Grids Supported - Three Phase | 3 / N / PE (WYE with Neutral) | | | V |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | |
| INPUT | | | | |
| Maximum DC Power (Module STC) | 6750 | 9450 | 10800 | W |
| Transformer-less, Ungrounded | Yes | | | |
| Maximum Input Voltage per Array | 600 | | | Vdc |
| Nominal DC Input Voltage per Array | 400 | | | Vdc |
| Maximum Input Current | 8.5 | 12 | 13.5 | Adc |
| Reverse-Polarity Protection | Yes | | | |
| Ground-Fault Isolation Detection | 700kΩ Sensitivity | | | |
| Maximum Inverter Efficiency | 98 | | | % |
| European Weighted Efficiency | 97.3 | 97.4 | 97.6 | % |
| Nighttime Power Consumption | < 2.5 | | | W |
| ADDITIONAL FEATURES | | | | |
| Supported Communication Interfaces ⁽²⁾ | RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Cellular (optional) | | | |
| Smart Energy Management | Export Limitation, Smart Energy Management | | | |
| STANDARD COMPLIANCE | | | | |
| Safety | IEC62109, AS/NZS3100 | | | |
| Grid Connection Standards | AS/NZS4777:2015 | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B | | | |
| RoHS | Yes | | | |
| INSTALLATION SPECIFICATIONS | | | | |
| AC output conduit size / Wire cross section | 20mm minimum / 3-13mm ² | | | |
| DC input conduit size / Wire cross section | 20mm minimum / 3-13mm ² | | | |
| DC Input | Terminal blocks for 2 arrays enclosed through 2 separate conduits ⁽³⁾ | | | |
| Dimensions with Safety Switch (H x W x D) | 775 x 315 x 191 | | | mm |
| Weight | 24.7 | | | kg |
| Operating Temperature Range | -20 - +60 ⁽⁴⁾ | | | °C |
| Cooling | Internal fan | | | |
| Noise | < 40 | | | dBA |
| Protection Rating | IP65 - Outdoor and Indoor | | | |
| Mounting | Bracket Provided | | | |

(1) These specifications apply to inverters with part number SExK-AU00Exxxx

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

(3) Two arrays must be connected to the inverter; refer to image below. For complete design guidelines refer to:

https://www.solaredge.com/sites/default/files/se_inverter_installation_guide_three_phasedesign_installation_addendum_aus.pdf

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

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