

# Three Phase Inverter For Australia

SE25K / SE30K / SE33.3K



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 Type 2 DC and AC surge protection, to better withstand lightning events
- Built-in module-level monitoring with Ethernet or wireless communication for full system visibility
- IP65 outdoor and indoor installation
- Smart Energy Management control
- Future-ready for the SolarEdge energy storage solution
- Integrated DC Safety Unit - eliminates the need for external DC isolators

# / Three Phase Inverter

## For Australia

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| Applicable to inverters with part number   | SEXKX-AUX0IXXX  |       |         |     |
|--|---|-------|---------|-----|
|  | SE25K   | SE30K | SE33.3K |     |
| <b>OUTPUT</b>  |   |       |         |     |
| Rated AC Power Output  | 25000   | 30000 | 33300   | W   |
| Maximum apparent AC Output Power   | 25000   | 30000 | 33300   | 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 ± 5%   |       |         | Hz  |
| Maximum Continuous Output Current (per Phase)  | 38  | 43.5  | 48.25   | Aac |
| AC Output Line Connections   | 3W + PE, 4W + PE  |       |         |     |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes   |       |         |     |
| Total Harmonic Distortion  | ≤ 3   |       |         | %   |
| Power Factor Range   | +/-0.8 to 1   |       |         |     |
| <b>INPUT</b>   |   |       |         |     |
| Maximum DC Power (Module STC)  | 37500   | 45000 | 50000   | W   |
| Transformer-less, Ungrounded   | Yes   |       |         |     |
| Nominal DC Input Voltage DC to Gnd   | 375   |       |         | Vdc |
| Maximum Input Voltage DC to Gnd  | 415   |       |         | Vdc |
| Nominal DC Input Voltage DC+ to DC-  | 750   |       |         |     |
| Maximum Input Voltage DC+ to DC-   | 830   |       |         |     |
| Maximum Input Current  | 37  | 43.5  | 48.25   | Adc |
| Short Circuit Current From The PV Array  | 48.25   |       |         | Adc |
| Reverse-Polarity Protection  | Yes   |       |         |     |
| Ground-Fault Isolation Detection   | 167kΩ Sensitivity <sup>(1)</sup>  |       |         |     |
| Maximum Inverter Efficiency  | 98.3  |       |         | %   |
| European Weighted Efficiency   | 98  |       |         | %   |
| Nighttime Power Consumption  | < 4   |       |         | W   |
| <b>ADDITIONAL FEATURES</b>   |   |       |         |     |
| Supported Communication Interfaces   | 2 x RS485, Ethernet, Wi-Fi <sup>(2)</sup>   |       |         |     |
| 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   | Supplied with the inverter  |       |         |     |
| DC/AC Surge Protection   | Type II, field replaceable, Optional  |       |         |     |
| <b>DC SAFETY UNIT</b>  |   |       |         |     |
| DC Disconnect  | Integrated  |       |         |     |
| <b>STANDARD COMPLIANCE</b>   |   |       |         |     |
| Safety   | IEC62109, AS/NZS3100  |       |         |     |
| Grid Connection Standards <sup>(3)</sup>   | AS/NZS4777:2015   |       |         |     |
| Emissions  | IEC61000-6-2, IEC61000-6-3 Class A , IEC61000-3-11, IEC61000-3-12                         |       |         |     |
| RoHS   | Yes   |       |         |     |
| <b>INSTALLATION SPECIFICATIONS</b>   |   |       |         |     |
| AC Output Conduit Size / Wire Cross Section  | 20 mm minimum / 4-16 mm <sup>2</sup>  |       |         |     |
| DC Input Conduit Size / Wire Cross Section   | 20 mm minimum / 6-35 mm <sup>2</sup>  |       |         |     |
| Dimensions with Safety Unit (H x W x D)  | 808 x 317 x 300   |       |         | mm  |
| Weight with Safety Unit  | 35  |       |         | kg  |
| Operating Temperature Range  | -40 to +60 <sup>(4)</sup>   |       |         | °C  |
| Cooling  | Fan (user replaceable)  |       |         |     |
| Noise  | < 62  |       |         | dBA |
| Protection Rating  | IP65 - Outdoor and Indoor   |       |         |     |
| Mounting   | Bracket Provided  |       |         |     |

(1) Where permitted by local regulations

(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 all standards refer to the Certifications category in the Resource Library: <http://www.solaredge.com/groups/support/downloads>

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