



SolarEdge Three Phase Inverters

(Australia) SE5K - SE12.5K

INVERTERS



Specifically designed to work with power optimisers

- Superior efficiency (98%)
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- IP65 – Outdoor and indoor installation
- Fixed voltage inverter, DC/AC conversion only
- Integrated DC Safety Unit - eliminates the need for external DC isolators



SolarEdge Three Phase Inverters

(Australia) SE5K - SE12.5K⁽¹⁾⁽²⁾

	SE5K	SE7K	SE8K	SE9K	SE10K	SE12.5K	
OUTPUT							
Rated AC Power Output	4985	7000	8000	9000	10000	12500	VA
Maximum AC Power Output	4985	7000	8000	9000	10000	12500	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	14.5	16	20	A
Residual Current Detector / Residual Current Step Detector	300 / 30						mA
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral); 230 / 400						V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes						
INPUT							
Maximum DC Power (Module STC)	6250	8750	10000	11250	12500	15600	W
Transformer-less, Ungrounded	Yes						
Nom. DC Input Voltage DC to Gnd	375						
Max. Input Voltage DC to Gnd	415						
Nom. DC Input Voltage DC+ to DC-	750						Vdc
Max. Input Voltage DC+ to DC-	830						Vdc
Maximum Input Current	8.5	12	13.5	15	16.5	21	Adc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	700kΩ Sensitivity						
Maximum Inverter Efficiency	98						%
European Weighted Efficiency	97.3	97.3	97.5	97.5	97.6	97.7	%
Nighttime Power Consumption	< 2.5						W
ADDITIONAL FEATURES							
Supported Communication Interfaces ⁽³⁾	RS485, Ethernet, Zigbee (optional), Wi-Fi (optional), Built-in GSM (optional)						
STANDARD COMPLIANCE							
Safety	IEC-62103 (EN50178), IEC-62109, AS-3100						
Grid Connection Standards ⁽⁴⁾	VDE 0126-1-1, VDE-AR-N-4105, AS-4777, RD-1663, DK 5940						
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 / AWG range	19.05 minimum / 12-6 AWG						mm
DC input conduit size / AWG range	19.05 minimum / 12-6 AWG						mm
Dimensions with Safety Switch (H x W x D)	775 x 315 x 260						mm
Weight	36.2						kg
Operating Temperature Range	-20 - +60						°C
Cooling	Fan (user replaceable)						
Noise	< 50 ⁽⁵⁾						dBA
Protection Rating	IP65 - Outdoor and Indoor						
Bracket Mounted (Bracket Provided)							

⁽¹⁾ These specifications apply to inverters with Australian part numbers (SExxxx-AUxxxxUx)

⁽²⁾ For higher power models refer to: <http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-inverter-extended-power-datasheet-us.pdf>

⁽³⁾ Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>

⁽⁴⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁵⁾ For inverters with a noise level suitable for residential environments refer to: <http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-indoor-inverter-datasheet.pdf>

