



SolarEdge Three Phase Inverters

(Australia) SE5K - SE10K

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 - SE10K⁽¹⁾⁽²⁾

	SE5K	SE7K	SE8K	SE9K	SE10K	
OUTPUT						
Rated AC Power Output	4985	7000	8000	9000	10000	VA
Maximum AC Power Output	4985	7000	8000	9000	10000	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	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	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	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	%
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>

