



SolarEdge Three Phase Inverters



The best choice for SolarEdge enabled systems

- Superior efficiency (98%)
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Communication to internet via Ethernet or Wireless
- IP65 – Outdoor and indoor installation



architects of energy™



Three Phase Inverters

SE8k/SE10k/SE12k

All our inverters are part of SolarEdge's innovative system designed to provide superior performance at a competitive price.

The SolarEdge inverter combines a sophisticated, cutting-edge digital control technology and a one stage, ultra-efficient power conversion architecture to achieve superior performance – over 97% efficiency and best-in-class reliability. Our fixed-voltage technology ensures the inverter is always working at its optimal input voltage, regardless of the number of modules or environmental conditions.

A proprietary data monitoring receiver is integrated in the inverter and aggregates SolarEdge PowerBox performance data from each PV module. Multiple inverters can be connected in an RS485 bus or using a wireless Zigbee MESH network. The data from the inverters is transmitted to the web using an Ethernet connection or a wireless link and can be accessed via the SolarEdge Monitoring Portal for performance analysis, fault detection and troubleshooting.

TECHNICAL DATA

	SE8k	SE10k	SE12k	W
OUTPUT				
Rated AC Power Output	8000	10000	12500	VA
Maximum AC Power Output	8000	10000	12500	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	400 / 230			Vac
AC Output Voltage - Line to Neutral Range	184 - 265			Vac
AC Frequency	50 ± 5			Hz
Maximum Continuous Output Current (per Phase)	13.5	17.5	19.5	A
Residual Current Detector / Residual Current Step Detector	300 / 30			mA
Grids Supported - Three Phase	3 / N / PE ; 230 / 400			V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
INPUT				
Recommended Maximum DC Power* (Module STC)	8800	11000	13000	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage	950			Vdc
Nominal DC Input Voltage	750			Vdc
Maximum Input Current	15.5	18.5	22	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	600k Ω Sensitivity			
Maximum Inverter Efficiency	98			%
European Weighted Efficiency	97.6	97.5	97.4	%
Nighttime Power Consumption	< 2.5			W
STANDARD COMPLIANCE				
Safety	IEC-62103 (EN50178), Draft IEC-62109, UL1741			
Grid Connection Standards	VDE 0126-1-1, AS-4777, RD-1663, DK 5940, IEEE1547, NEC			
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B			
RoHS	Yes			
INSTALLATION SPECIFICATIONS				
AC Output	Cable Gland - diameter 13-18			mm
DC Input	MC4 compatible			
Dimensions (HxWxD)	540 x 315 x 260			mm
Weight	32			kg
Operating Temperature Range	-20 - +60			°C
Cooling	Fan (user replaceable)			
Protection Rating	IP65 - Outdoor and Indoor			
Bracket Mounted (Bracket Provided)				

* Higher input DC power may be installed; analyze yearly AC performance.



USA 900 Golden Gate Terrace, Suite E, Grass Valley CA 95945, USA
Germany Bretonischer Ring 18, 85630 Grasbrunn (Munich), Germany
Japan B-9 Ariake Frontier Building, 3-7-26 Ariake, Koto-Ku, Tokyo 135-0063, Japan
Israel 6 HeHarash St. P.O.Box 7349, Neve Neeman, Hod Hasharon 45240, Israel

www.solaredge.com

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