



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

SE7k/SE8k/SE9k/SE10k/SE12.5k

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

The SolarEdge PV 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 PV monitoring receiver is integrated in the inverter and aggregates SolarEdge power optimizer's 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

	SE7k	SE8k	SE9k	SE10k	SE12.5k	
OUTPUT						
Rated AC Power Output	7000	8000	9000	10000	12500	VA
Maximum AC Power Output	7000	8000	9000	10000	12500	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 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)	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 ; 230 / 400					V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
INPUT						
Recommended Maximum DC Power * (Module STC)	7700	8800	9900	11000	13000	W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	950					Vdc
Nominal DC Input Voltage	750					Vdc
Maximum Input Current	12	13.5	15	16.5	21	Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600kΩ Sensitivity					
Maximum Inverter Efficiency	98					%
European Weighted Efficiency	97.7	97.6	97.6	97.5	97.4	%
Nighttime Power Consumption	< 2.5					W
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, RS232, Ethernet, Zigbee (optional)					
STANDARD COMPLIANCE						
Safety	IEC-62103 (EN50178), IEC-62109					
Grid Connection Standards	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	Cable Gland - diameter 11-17					mm
DC Input	MC4					
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
Italy VISMUNDA SRL- Corso Del Popolo 50/A, Treviso, Italy
Japan B-9 Ariake Frontier Building, 3-7-26 Ariake, Koto-Ku, Tokyo 135-0063, Japan
China City Center, 100 Zunyi Road, Building A, Unit 1204, Shanghai 200051, China
Israel 6 HeHarash St. P.O.Box 7349, Neve Neeman, Hod Hasharon 45240, Israel
www.solaredge.com

