



# 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 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 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	
<b>OUTPUT</b>						
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 - 265					Vac
AC Frequency	50/60 ± 5					Hz
Maximum Continuous Output Current (per Phase)	11.5	13.5	15.5	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					
<b>INPUT</b>						
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	14	15.5	20	18.5	22	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
<b>STANDARD COMPLIANCE</b>						
Safety	IEC-62103 (EN50178), Draft IEC-62109					
Grid Connection Standards	VDE 0126-1-1, 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					
<b>INSTALLATION SPECIFICATIONS</b>						
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)						

\* Certification pending in some countries

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

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