



SolarEdge Three Phase Inverters



The best choice for SolarEdge enabled systems

- Superior efficiency (>97%)
- Small, lightweight and easy to install
- Built-in module-level monitoring receiver
- Communication to internet via broadband
- IP65 – Outdoor and indoor installation
- Excellent reliability with standard 12 year warranty



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.

This inverter can be fitted with a seamlessly attachable cabling duct for managing the installation wirings and it is light enough for a single person to install on a supplied bracket.

TECHNICAL DATA

	SE8k	SE10k	SE12k	W
OUTPUT				
Rated AC Power Output	8000	10000	12000	W
Maximum AC Power Output	8000	10000	12000	W
AC Output Voltage (Nominal)	400			Vac
AC Output Voltage Range	320 - 460			Vac
AC Frequency (Nominal)	50			Hz
AC Frequency Range	47.5 - 50.2			Hz
Maximum Continuous Output Current (per Phase)	14.4	18	19	A
Total Harmonic Distortion (THD) at Maximum Power	< 3			%
Power Factor	> 0.99			
Residual Current Detector / Residual Current Step Detector	300 / 30			mA
Maximum DC Injection	130			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)	8400	10400	12500	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage	950			Vdc
Nominal DC Input Voltage	900			Vdc
Maximum Input Current	15.5	18.5	22.5	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	600kΩ 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			
WEEE, RoHS	Yes			
INSTALLATION SPECIFICATIONS				
Dimensions (WxLxH)	540x315x207			mm
Weight	25			kg
Operating Temperature Range	-20 - +50			°C
Cooling	Fan			
Protection Rating	IP65 - Outdoor and Indoor			
Bracket Mounted (Bracket Provided), Optional Attachable Cabling Duct (EU), Integral DC Switch (US)				

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