



SolarEdge Single Phase Inverters 16A



The best choice for SolarEdge enabled systems

- Superior efficiency (97.6%)
- Small, lightweight and easy to install
- Built-in module-level monitoring
- Communication to internet via Ethernet or Wireless
- IP65 – Outdoor and indoor installation



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Single Phase Inverters

SE3500-GBR/SE4000-GBR/SE4000-POR

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, 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 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.

The inverter is light enough for a single person to install on a supplied bracket.

TECHNICAL DATA

	SE3500	SE4000	
OUTPUT			
Rated AC Power Output	3500	3680	W
Maximum AC Power Output	3500	3680	W
AC Output Voltage (Nominal)	400/230 ; 380/220		Vac
AC Output Voltage Range	184 - 264.5		Vac
AC Frequency (Nominal)	50 / 60 ± 5		Hz
Maximum Continuous Output Current	16		A
Residual Current Detector / Residual Current Step Detector	300 / 30		mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes		
INPUT			
Recommended Maximum DC Power* (Module STC)	3700	4100	W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage	550		Vdc
Nominal DC Input Voltage	350		Vdc
Maximum Input Current	13.5	16	Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600kΩ Sensitivity		
Maximum Inverter Efficiency	97.6		%
European Weighted Efficiency	97.3	97.3	%
Nighttime Power Consumption	< 2.5		W
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485, Ethernet, Zigbee (optional)		
STANDARD COMPLIANCE			
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		
INSTALLATION SPECIFICATIONS			
AC Output	Cable Gland - diameter 13-18		mm
DC Input	MC4 compatible		
Dimensions (HxWxD)	540 x 315 x 191		mm
Weight	23		kg
Cooling	Natural Convection		
Operating Temperature Range	-20 - +50		°C
Protection Rating	IP65 - Outdoor and Indoor		
Bracket Mounted (Bracket Provided)			

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

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