



# 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



SE3500-XXX\*

SE4000-16A

architects of energy™

# Single Phase Inverters - 16A

## SE3500-XXX\*/SE4000-16A

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 single phase 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 solar 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-XXX*	SE4000-16A	
<b>OUTPUT</b>			
Rated AC Power Output	3500	4000	W
Maximum AC Power Output	3500	4000	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		
<b>INPUT</b>			
Recommended Maximum DC Power**(Module STC)	3700	4200	W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage	500		Vdc
Nominal DC Input Voltage	350		Vdc
Maximum Input Current	13.5	15.5	Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600k $\Omega$ Sensitivity		
Maximum Inverter Efficiency	97.6		%
European Weighted Efficiency	97.5		%
Nighttime Power Consumption	< 2.5		W
<b>ADDITIONAL FEATURES</b>			
Supported Communication Interfaces	RS485, RS232, Ethernet, Zigbee (optional)		
<b>STANDARD COMPLIANCE</b>			
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		
<b>INSTALLATION SPECIFICATIONS</b>			
AC Output	Cable Gland - diameter 11-17		mm
DC Input	MC4 compatible		
Dimensions (HxWxD)	540 x 315 x 172	540 x 315 x 191	mm
Weight	19	20.5	kg
Cooling	Natural Convection		
Operating Temperature Range	-20 - +50		°C
Protection Rating	IP65 - Outdoor and Indoor		
Bracket Mounted (Bracket Provided)			

\* XXX can be GBR (United Kingdom), DEN (Denmark), PRT (Portugal), POL (Poland); for other countries contact SolarEdge

\*\* 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](http://www.solaredge.com)



**solar**edge  
architects of energy™