



# SolarEdge US Single Phase Inverters



## The only inverters specially designed for distributed DC architecture

- Superior efficiency (>97%)
- Small, lightweight and easy to install
- Built-in module-level monitoring receiver
- Internal Ethernet port for connecting to SolarEdge monitoring portal
- Optional wireless inverter connection for monitoring data
- Outdoor and indoor installation
- Excellent reliability with standard 12 year warranty



*architects of energy™*

# Single Phase Inverters

## SE3300US/SE4000US/SE5000US/SE6000US

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 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.

The inverter comes with a built-in DC switch and is light enough for a single person to install on a supplied bracket.

### TECHNICAL DATA

	SE3300US	SE4000US	SE5000US	SE6000US	
<b>OUTPUT</b>					
Rated AC Power Output	3300	4000	5000	6000	W
Maximum AC Power Output	3300	4000	5000	6000	W
AC Output Voltage (Nominal)	208 / 240				Vac
AC Output Voltage Range	183 - 228.8 / 211.2-264				Vac
AC Frequency (Nominal)	60				Hz
AC Frequency Range	59.3 - 60.5				Hz
Maximum Continuous Output Current	16 @ 208V / 14 @ 240V	20 @ 208V / 17 @ 240V	24 @ 208V / 21 @ 240V	29 @ 208V / 25 @ 240V	A
Total Harmonic Distortion (THD) at Maximum Power	< 3				%
Power Factor	> 0.99				
GFDI	1				A
Maximum DC Injection	130				mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes				
<b>INPUT</b>					
Recommended Maximum DC Power* (Module STC)	3500	4200	5300	6200	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage	500				Vdc
Nominal DC Input Voltage	350				Vdc
Maximum Input Current	13	16	20	23	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	600 k $\Omega$ Sensitivity				
Maximum Inverter Efficiency	97.6				%
European Weighted Efficiency	97.2	97.3	97.2	97.1	%
CEC Weighted Efficiency	97 @ 208V / 97.5 @ 240V				%
Nighttime Power Consumption	< 2.5				W
<b>STANDARD COMPLIANCE</b>					
Safety	UL1741, IEC-62103 (EN50178), Draft IEC-62109				
Grid Connection Standards	NEC, VDE 0126-1-1, AS-4777, RD-1663, DK 5940, IEEE1547				
Emissions	FCC part15 class B, IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12				
WEEE, RoHS	Yes				
<b>INSTALLATION SPECIFICATIONS</b>					
AC Output	3/4" Metal Conduit				
DC Input	3/4" Metal Conduit				
Dimensions (WxLxH)	27.5 x 12.5 x 7.5				in
Weight	52				lb
Cooling	Natural Convection				
Operating Temperature Range	-10 - +120				°F
Protection Rating	NEMA 3R - Rainproof				
Bracket Mounted (Bracket Provided), Integral DC Switch					

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

**USA** 2225 East Bayshore Rd., Suite 200, Palo Alto CA 94303, USA

**Germany** Königstr. 5, 01097 Dresden, Germany

**Japan** B-9 Ariake Frontier Building, 3-7-26 Ariake, Koto-Ku, Tokyo 135-0063, Japan

**Israel** 6 HaHarash St. P.O.Box 7349, Neve Neeman, Hod Hasharon 45240, Israel

[www.solaredge.com](http://www.solaredge.com)

**solar**edge  
architects of energy™

© Copyright SolarEdge. 2009. All rights reserved. SolarEdge, the SolarEdge logo, PowerBox and architects of energy are trademarks or registered trademarks of SolarEdge, Ltd. All other trademarks mentioned herein are believed to be trademarks of their respective owners. Date: 04/2010

SolarEdge is committed to reducing its impact on the environment, this document has been printed using recycled ecological paper.