SolarEdge Single Phase Inverters (North America)

The only inverters specially designed for distributed DC architecture

- Superior efficiency (97.5%)
- Small, lightweight and easy to install
- Built-in module-level monitoring
- Communication to internet via Ethernet or Wireless
- Outdoor and indoor installation

architects of energy™

Single Phase Inverters

SE3300US/SE3800US/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 single phase 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 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 comes with an AC/DC safety switch and is light enough for a single person to install on a supplied bracket.

TECHNICAL DATA

	SE3300US	SE3800US	SE5000US	SE6000US	
OUTPUT					
Rated AC Power Output	3300	3800	5000	5200@208V 6000@240V	W
Maximum AC Power Output	3300	3800	5000	5200@208V 6000@240V	W
AC Output Voltage Minimum-Nominal-Maximum	183 - 208 - 229 / 211 - 240 - 264				Vac
AC Frequency Minimum-Nominal-Maximum	59.3 - 60 - 60.5				Hz
Maximum Continuous Output Current 208V Grid	16	18.5	24	25	A
Maximum Continuous Output Current 240V Grid	14	16	21	25	A
GFDI	1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes				
INPUT					
Recommended Maximum DC Power*(Module STC)	4100	4750	6250	7500	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage	500				Vdc
Nominal DC Input Voltage	325 @ 208V / 350 @ 240V				Vdc
Maximum Input Current	10.5	12	16	17.5	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	600kΩ Sensitivity				
Maximum Inverter Efficiency	97.6				%
European Weighted Efficiency	97.2	97.3	97.2	97	%
CEC Weighted Efficiency	97 @ 208V / 97.5 @ 240V				%
Nighttime Power Consumption	< 2.5				W
ADDITIONAL FEATURES					
Supported Communication Interfaces	RS485, Ethernet, Zigbee (optional)				
STANDARD COMPLIANCE					
Safety	UL1741, IEC-62103 (EN50178), IEC-62109				
Grid Connection Standards	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				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output	3/4" Conduit				
DC Input	3/4" Conduit				
Dimensions (HxWxD)	27.5 x 12.5 x 7.5 / 540 x 315 x 191				in / mm
Dimensions (HxWxD) with AC/DC Safety Switch	30.5 x 12.5 x 7.5 / 775 x 315 x 191				in / mm
Weight	52 / 23				lb / kg
Weight with AC/DC Safety Switch	58 / 26				lb / kg
Cooling	Natural Convection				
Operating Temperature Range	-4 - +120 / -20 - +50				˚F / ˚C
Protection Rating	NEMA 3R				
Bracket Mounted (Bracket Provided), Integral AC/DC Safety Switch					

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

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