

SolarEdge Single Phase Inverters (North America)



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



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 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 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	6000	W
Maximum AC Power Output	3300	3800	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
Maximum Continuous Output Current 208V Grid	17.5	20	26	-	A
Maximum Continuous Output Current 240V Grid	15	16	23	26	A
GFDI	1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes				
INPUT					
Recommended Maximum DC Power* (Module STC)	3500	4000	5500	6200	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage	500				Vdc
Nominal DC Input Voltage	350				Vdc
Maximum Input Current	13	15.5	20	23	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	600 kΩ 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
STANDARD COMPLIANCE					
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				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output	3/4" Metal Conduit				
DC Input	3/4" Metal Conduit				
Dimensions (HxWxD)	27.5 x 12.5 x 7.5 / 540 x 315 x 191				in / mm
Weight	52 / 23				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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