



SolarEdge Single Phase Inverter Replaced Model (North America)

SE4000US replaced by SE3800US



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 Inverter

Replaced Model (North America) SE4000US

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'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 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

	SE4000US (replaced)	
OUTPUT		
Rated AC Power Output	4000	W
Maximum AC Power Output	4000	W
AC Output Voltage (Nominal)	208 / 240	Vac
AC Output Voltage Range	183 - 228.8 / 211.2-264	Vac
AC Frequency (Nominal)	60 ± 5	Hz
AC Frequency Range	59.3 - 60.5	Hz
Maximum Continuous Output Current	20 @ 208V / 17 @ 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	
INPUT		
Recommended Maximum DC Power* (Module STC)	4200	W
Transformer-less, Ungrounded	Yes	
Maximum Input Voltage	550	Vdc
Nominal DC Input Voltage	350	Vdc
Maximum Input Current	16	Adc
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	600kΩ Sensitivity	
Maximum Inverter Efficiency	97.6	%
European Weighted Efficiency	97.3	%
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 classB, IEC61000-6-2, IEC61000-6-3, EC61000-3-11,IEC61000-3-12	
RoHS	Yes	
INSTALLATION SPECIFICATIONS		
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.

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