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 on provided bracket
- Built-in module-level monitoring
- Communication to internet via Ethernet or Wireless
- Outdoor and indoor installation
- Integral AC/DC Switch

architects of energy™

Single Phase Inverters
SE3000A-US - SE7000A-US

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.

TECHNICAL DATA

	SE3000A-US	SE3800A-US	SE5000A-US	SE6000A-US	SE7000A-US	
OUTPUT						
Rated AC Power Output	3000	3800	5000	5200@208V 6000@240V 6000@277V	5200@208V 6000@240V 7000@277V	W
Max. AC Power Output	3000	3800	5000	5200@208V 6000@240V 6000@277V	5200@208V 6000@240V 7000@277V	W
AC Output Voltage Min.-Nom.-Max.	183 - 208 - 229 / 211 - 240 - 264		183 - 208 - 229 / 211 - 240-264 / 244- 277 - 294			Vac
AC Frequency Min.-Nom.-Max.	59.3 - 60 - 60.5					Hz
Max. Continuous Output Current @208V	14.5	18.5	24	25	25	A
Max. Continuous Output Current @240V	12.5	16	21	25	25	A
Max. Continuous Output Current @277V	-	-	18.5	22	25	A
GFDI	1					A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
INPUT						
Recommended Max. DC Power * (STC)	3750	4750	6250	7500	8750	W
Transformer-less, Ungrounded	Yes					
Max. Input Voltage	500					Vdc
Nom. DC Input Voltage	325 @ 208V / 350 @ 240V / 400 @ 277V					Vdc
Max. Input Current	10	12.5	16	18	18.5	Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600kΩ Sensitivity					
Maximum Inverter Efficiency	97.8	97.7	98.3	98.3	98.3	%
CEC Weighted Efficiency	97.5	97 @ 208V / 97.5@ 240V	97.5@ 208V, 240V / 98 @ 277V	97 @ 208V / 97.5@ 240V / 98 @ 277V		%
Nighttime Power Consumption	< 2.5					W
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, RS232, Ethernet, Zigbee (optional)					
STANDARD COMPLIANCE						
Safety	UL1741, IEC-62103 (EN50178), IEC-62109					
Grid Connection Standards	Utility-Interactive, 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)	21 x 12.5 x 7 / 540 x 315 x 172	21 x 12.5 x 7.5 / 540 x 315 x 191				in / mm
Dimensions with AC/DC Switch (HxWxD)	30.5 x 12.5 x 7 / 775 x 315 x 172	30.5 x 12.5 x 7.5 / 775 x 315 x 191				in / mm
Weight	42 / 19	45 / 20.5				lb / kg
Weight with AC/DC Switch	48.5 / 22	52 / 23.5				lb / kg
Cooling	Natural Convection					
Min.-Max. Operating Temperature Range	-4 / -20 (CAN version -40 / -40) to +140 / +60					°F / °C
Protection Rating	NEMA 3R					

* Higher input DC power may be installed; analyze yearly AC performance.
** The following Part Numbers are available (CAN PNs are eligible for the Ontario FIT and microFIT):
208/240V, min. operating temp -4F/-20C: SE3000A-US, SE3800A-US, SE5000A-US, SE6000A-US, SE7000A-US
277V, min. operating temp -4F/-20C: SE5000A-US, SE6000A-US, SE7000A-US
208/240V, min. operating temp -40F/-40C: SE3000A-US-CAN, SE3800A-US-CAN, SE5000A-US-CAN, SE6000A-US-CAN
277V, min operating temp -40F/-40C: SE5000A-US-CAN, SE6000A-US-CAN, SE7000A-US-CAN

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