

solar**edge**

Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US /
SE6000H-US / SE7600H-US / SE10000H-US

INVERTERS



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)





Single Phase Inverter

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	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	
OUTPUT							
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	VA
Max. AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	VA
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	Vac
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5 ⁽¹⁾			Hz
Maximum Continuous Output Current 208V	-	16	-	24	-	-	A
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	A
GFDI Threshold				1			A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes			
INPUT							
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	W
Maximum DC Power @208V	-	5100	-	7750	-	-	
Transformer-less, Ungrounded				Yes			
Maximum Input Voltage				480			Vdc
Nominal DC Input Voltage				380	400		Vdc
Maximum Input Current 208V	-	9	-	13.5	-	-	
Maximum Input Current @240V	8.5	10.5	13.5	16.5	20	27	Adc
Max. Input Short Circuit Current				45			Adc
Reverse-Polarity Protection				Yes			
Ground-Fault Isolation Detection				600k Ω Sensitivity			
Maximum Inverter Efficiency	99			99.2			%
CEC Weighted Efficiency				99			%
Nighttime Power Consumption				< 2.5			W
ADDITIONAL FEATURES							
Supported Communication Interfaces				RS485, Ethernet, ZigBee (optional), Cellular (optional)			
Revenue Grade Data, ANSI C12.20				Optional ⁽²⁾			
Rapid Shutdown - NEC 2014 and 2017 690.12				Automatic Rapid Shutdown upon AC Grid Disconnect			
STANDARD COMPLIANCE							
Safety				UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07			
Grid Connection Standards				IEEE1547, Rule 21, Rule 14 (HI)			
Emissions				FCC Part 15 Class B			
INSTALLATION SPECIFICATIONS							
AC Output Conduit Size / AWG Range				3/4" minimum / 20-4 AWG			
DC Input Conduit Size / # of Strings / AWG Range				3/4" minimum / 1-2 strings / 14-6 AWG	3/4" minimum / 1-3 strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)				17.7 x 14.6 x 6.8 / 450 x 370 x 174	21.3 x 14.6 x 7.3 / 540 x 370 x 185		in / mm
Weight with Safety Switch	22 / 10	25.1 / 11.4		26.2 / 11.9	38.8 / 17.6		lb / kg
Noise				< 25	<50		dB(A)
Cooling				Natural Convection	Natural convection		
Operating Temperature Range				-13 to +140 / -25 to +60 ⁽³⁾ (-40°F / -40°C option) ⁽⁴⁾			°F / °C
Protection Rating				NEMA 3R (Inverter with Safety Switch)			

⁽¹⁾ For other regional settings please contact SolarEdge support

⁽²⁾ Revenue grade inverter P/N: SExxxxH-US000NNC2

⁽³⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

⁽⁴⁾ -40 version P/N: SExxxxH-US000NNU4

