



Single Phase Inverter with EV Charger

for North America SE7600H-US

	SE3800H-US	SE7600H-US	
OUTPUT — AC (LOADS / GRID)			
Rated AC Power Output	3800	7600	VA
Max. AC Power Output	3800	7600	VA
AC Output Voltage Min. – Nom. – Max.	211 – 240 – 264		V _{ac}
AC Frequency (Nominal)	59.3 – 60 – 60.5 ⁽¹⁾		Hz
Maximum Continuous Output Current @240V	16	32	A
GFDI Threshold	1		A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes		
OUTPUT — AC (EV CHARGER)			
Charging Level	AC Level 2		
Rated AC Power Output	9600		W
Nominal AC Output Voltage	240		V _{ac}
Nominal AC Frequency	60		Hz
Maximum Continuous Output Current @240V	40		A _{ac}
Ground Fault Detection Threshold	5		mA
INPUT — DC			
Maximum DC Power	5900	11800	W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage	480		V _{dc}
Nominal DC Input Voltage	380	400	V _{dc}
Maximum Input Current @240V	10.5	20	A _{dc}
Max. Input Short Circuit Current	45		A _{dc}
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600k Ω Sensitivity		
Maximum Inverter Efficiency	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		
EV Charger Status LEDs, Fault Indicator	Yes		
EV Charger Unplugging Detection	Yes, current termination according to SAE J1772		
EV Charger Ground Connection Monitoring	Yes, continuous		
STANDARD COMPLIANCE			
Safety – Inverter	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07		
Safety – EV Charger ⁽³⁾	UL2594, UL2231-1, UL2231-2, NEC Article 625 compliant		
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)		
Emissions	FCC Part 15 Class B		
INSTALLATION SPECIFICATIONS			
AC Output Conduit Size / AWG Range	Minimum 0.75” Conduit / 14-6 AWG		
DC Input Conduit Size / # of Strings / AWG Range	Minimum 0.75” Conduit / 1-2 strings / 14-6 AWG		
EV Charger Connector	SAE J1772-2009		
Dimensions with Safety Switch (H x W x D), without Charging Cable	17.7 x 14.6 x 6.8 / 450 x 370 x 174		in / mm
Charging Cable Length ⁽⁴⁾	25 / 7.6 (15 / 4.6 option)		ft / m
Weight with Safety Switch, without Charging Cable	22 / 10	26.2 / 11.9	lb / kg
Weight with Safety Switch and Charging Cable	34.5 / 15.7 (29.7 / 13.5 for 15ft / 4.6m option)	38.7 / 17.6 (33.9 / 15.4 for 15ft / 4.6m option)	lb / kg
Noise	<25	< 50	dBA
Cooling	Natural Convection	Natural convection and internal fan (user replaceable)	
Operating Temperature Range	-13 to +140 / -25 to +60 ⁽⁵⁾ (-40°F / -40°C option) ⁽⁶⁾		°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-US000xxW2

⁽³⁾ Pending certification

⁽⁴⁾ EV Charger holder and cable ordered separately

⁽⁵⁾ Power de-rating from 50°C

⁽⁶⁾ -40 version P/N: SExxxxH-US000xxV4 (W4 for revenue grade inverter)



RoHS