

Increase your revenue by offering homeowners a SolarEdge HD-Wave inverter with integrated EV charger. It offers users the ability to charge electric vehicles up to six times faster than a standard Level 1 charger through an innovative solar boost mode that utilizes grid and PV charging simultaneously. This product is the first PV inverter-integrated EV charger.

By installing the SolarEdge HD-Wave inverter-integrated EV charger, your customers benefit from the reduced hassle of installing a separate standalone EV charger and a PV inverter. Furthermore, you benefit by eliminating the need for additional wiring, conduit and a breaker installation. By installing an EV charger that is integrated with an inverter, an additional dedicated circuit breaker is not needed, saving space and eliminating a potential main distribution panel upgrade.

Whether your customer owns an EV now or just wants to be EV-ready, drive your business into the future with SolarEdge.



KEY BENEFITS



Combines sun and grid power for charging up to six times faster than existing electrical infrastructure



Fully integrated with SolarEdge monitoring platform



Reduces workload and costs of installing a standalone EV charger and a PV inverter



Built-in meter enables separate tracking of EV power usage for visibility and control



12-year warranty ⁽¹⁾, extendable to 20 or 25 years



Optional built-in Revenue Grade Meter (RGM)



Saves space on main distribution panel to avoid potential upgrade



Demand-Response ready





FULL VISIBILITY AND CONTROL

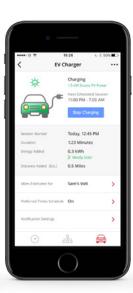
The SolarEdge EV charger supports full network connectivity and integrates seamlessly with the SolarEdge monitoring platform. Homeowners can track their charging status, control vehicle charging, and set charging schedules.

FEATURE HIGHLIGHTS

- > Smart-scheduling for use with Time of Use (TOU) rates charge from the grid during off peak hours or when grid rates are lower
- > Track PV, EV, and grid consumption for visibility and control of household energy usage
- > Remote operation via mobile app turn charging on and off directly from your smartphone
- > View charging duration, charge energy, and percent charge from PV









EV CHARGING COMPARISON

	EV Charger Level 1 (1.44 kW 12A@120Vac)	SolarEdge EV Charger Level 2 with solar boost mode Charging speed depends on PV production (Maximum 9.6 kW 40A@ 240Vac) ⁽²⁾
Added miles per 1 hour of charging (3)	5 miles	25 to 30 miles
Charge time needed to meet average daily mileage (3)	6.5 hours	1.5 to 1 hour

¹ Cable and connector are not included

² Check your car manual for maximum charge rate

³ Assuming 3 miles/kWh and with a US household average driving distance of 29 miles per day (<u>source: www.rita.</u> dot.gov/bts/sites/rita.dot.gov.bts/files/subject areas/national household travel survey/daily travel.html)



Single Phase Inverter with EV Charger

for North America SE7600H-US

	SE7600H-US	
OUTPUT — AC (LOADS / GRID)		
Rated AC Power Output	7600	VA
Max. AC Power Output	7600	VA
AC Output Voltage Min. — Nom. — Max.	211 — 240 — 264	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5 ⁽¹⁾	Hz
Maximum Continuous Output Current @240V	• • • • • • • • • • • • • • • • • • • •	
	32	A
GFDI Threshold	1	ΑΑ
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes	
OUTPUT — AC (EV CHARGER)		
Charging Level	AC Level 2	
Rated AC Power Output	9600	W
Maximum AC Power Output — Surge	9600	W
Nominal AC Output Voltage	240	Vac
Nominal AC Frequency	60	Hz
Maximum Continuous Output Current @240V	40	Aac
Ground Fault Detection Threshold	5	mA
INPUT — DC	<u> </u>	IIIA
	11900	14/
Maximum DC Power	11800	W
Transformer-less, Ungrounded	Yes	
Maximum Input Voltage	480	Vdc
Nominal DC Input Voltage	400	Vdc
Maximum Input Current @240V	20	Adc
Max. Input Short Circuit Current	45	Adc
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	600kΩ Sensitivity	
Maximum Inverter Efficiency	99.2	%
	99	
CEC Weighted Efficiency	. • • • • • • • • • • • • • • • • • • •	%
Nighttime Power Consumption	< 2.5	W
ADDITIONAL FEATURES		T
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	,	
	UL1741, UL1741 SA, UL1699B, CSA C22.2,	
Safety — Inverter	Canadian AFCI according to T.I.L. M-07	
Safety — EV Charger ⁽³⁾	UL2594, UL2231-1, UL2231-2, NEC Article 625 compliant	
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Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)	
Emissions	FCC Part 15 Class B	
INSTALLATION SPECIFICATIONS		1
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 / mr
Charging Cable Length	25 / 7.6 (15 / 4.6 option) ⁽⁴⁾	ft/m
Weight with Safety Switch, without Charging Cable	26.2 / 11.9	lb / kg
Weight with Safety Switch and Charging Cable	38.7 / 17.6 (33.9 / 15.4 for 15ft / 4.6m option)	
		lb / kg
Noise	<50	dBA
Cooling	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: SE7600H-USxxxxxWx (3) Pending certification (4) 25' version P/N: SE7600H-US001xxxx, 15' version P/N: SE7600H-US002xxxx (5) Power de-rating from 50°C (6) -40 version P/N: SE7600H-USxxxxx4