

Increase your revenue by offering homeowners a SolarEdge single phase inverter with an 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 world's first EV charging PV inverter.

By installing the EV charging single phase inverter, your customers benefit from the reduced hassle of installing separately a 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 standard EV chargers using existing electricity 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 <sup>(1)</sup>, 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

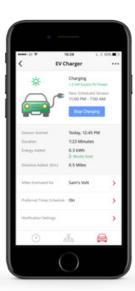
The SolarEdge EV charging single phase inverter supports full network connectivity and integrates seamlessly with the SolarEdge monitoring platform. Homeowners can track their charging status, control vehicle charging, and set charging schedules.

### **FEATURE HIGHLIGHTS**

- > Smart-scheduling for use with Time of Use (TOU) rates charge from the grid during off-peak hours
- > 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) <sup>(2)</sup>
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 to 1.5 hours

<sup>&</sup>lt;sup>1</sup> Cable and connector are not included

<sup>&</sup>lt;sup>2</sup> Check your car manual for maximum charge rate

<sup>&</sup>lt;sup>3</sup> Assuming 3 miles/kWh and with a US household average driving distance of 29 miles per day (source: https://www.bts.gov/statistical-products/surveys/national-household-travel-survey-daily-travel-quick-facts)

## **EV Charging Single Phase Inverter**



for North America SE3800H-US/SE5000H-US/SE6000H-US/SE7600H-US

#### INVERTER SPECIFICATIONS:

	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US		
OUTPUT	2000 @ 2401/		6000 @ 2401/			
Rated AC Power Output	3800 @ 240V	5000	6000 @ 240V	7600	VA	
	3300.@ 208V 3800.@ 240V		5000.@.208V			
Max. AC Power Output		5000	6000 @ 240V	7600	VA	
		3000	5000 @ 208V	, , , , , , , , , , , , , , , , , , , ,		
AC Output Voltage MinNomMax. (183 - 208 - 229)	3	l <del>.</del> <del>.</del>	3	l	Vac	
AC Output Voltage MinNomMax. (211 - 240 - 264)	3	3	3	3	Vac	
AC Frequency (Nominal)		59.3 - 60	) - 60.5 <sup>(1)</sup>		Hz	
Maximum Continuous Output Current 208V	16	_	24	_	Α	
Maximum Continuous Output Current @240V	16	21	25	32	A	
GFDI Threshold	· · · · · · · · · · · · · · · · · · ·	<u> </u>	1 <del></del>	L	Δ	
Utility Monitoring, Islanding Protection, Country				• • • • • • • • • • • • • • • • • • • •		
Configurable Thresholds	Yes					
INPUT						
Maximum DC Power @240V	5900	7750	9300	11800	W	
Maximum DC Power @240V Maximum DC Power @208V		7750		11900		
		l	7750	l		
Transformer-less, Ungrounded			<u>es</u>		Vdc	
Maximum Input Voltage		480				
Nominal DC Input Voltage		380	,	400	Vdc	
Maximum Input Current 208V	9		13.5	-		
Maximum Input Current @240V	10.5	13.5	16.5	20	Adc	
Max. Input Short Circuit Current		4	5		Adc	
Reverse-Polarity Protection		Ye	es			
Ground-Fault Isolation Detection		600kΩ Se	ensitivity			
Maximum Inverter Efficiency	99.2					
CEC Weighted Efficiency		99				
Nighttime Power Consumption		<2.5				
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS	S485, Ethernet, ZigBee (o	ptional), Cellular (optiona	al)		
Revenue Grade Data, ANSI C12.20	Optional <sup>(2)</sup>					
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect					
STANDARD COMPLIANCE		atomatic napia snataow	Tapon Ne ona bisconne	<u> </u>		
Safety	1111741 111174	1 SA 1111699B CSA C22	Canadian ΔFCI accordin	ng to TII M-07		
Grid Connection Standards		UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07  IEEE1547, Rule 21, Rule 14 (HI)				
Emissions	FCC Part 15 Class B					
INSTALLATION SPECIFICATIONS		FCC Part	13 Class D			
		2/4"::	/ 20 4 414/6			
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					
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174					
Weight with Safety Switch	22 / 10 25.1 / 11.4 26.2 / 11.9					
Noise		< 25	• • • • • • • • • • • • • • • • • • • •	<50	dBA	
Cooling		Natural C	onvection			
Operating Temperature Range	-13 to +140 / -25 to +60 <sup>(3)</sup> (-40°F / -40°C option) <sup>(4)</sup>				°F/°C	
Protection Rating		NEMA 3R (Inverter	with Safety Switch)			
For other regional settings places contact SolarEdge support	(3) For nower de-rating infor	mation refer to: https://www.	colaredge com/sites/default/4	ilas/sa-tamparatura darati	ng-note-na n	
For other regional settings please contact SolarEdge support Revenue grade inverter P/N: SExxxxH-US000NNC2	(4) _10 version D/N: SEvvvvH.	IISOOONIII	solaredge.com/sites/default/f	nes/se-temperature-derati	iig-iiute-iid.pt	

#### **EV CHARGER AND EV CHARGER CABLE SPECIFICATIONS:**

OUTPUT — AC		
	AC Level 2	T
Charging Level	Connection to the SolarEdge monitoring platform is required for first EV charging	
Rated AC Power Output (grid & PV)	9600	W
Nominal AC Output Voltage	240	Vac
Nominal AC Frequency	60	Hz
Maximum Continuous Output Current @240V (grid & PV)	40	Aac
Ground Fault Detection Threshold	5	mA
ADDITIONAL FEATURES		
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	
EV Charger Configuration	Via the monitoring app; Ethernet or ZigBee connection is required (5)	
STANDARD COMPLIANCE		
Safety (6)	UL2594, UL2231-1, UL2231-2, NEC Article 625 compliant	
EV Charger	SAE J1772-2009	
INSTALLATION SPECIFICATIONS		
EV Charger Connector	SAE J1772-2009	
EV Charger Cable Length (7)	25 / 7.6 (15 / 4.6 option)	ft/m
EV Charger Cable Weight	12.5 / 5.7 (7.7 / 3.5 for 15ft / 4.6m option)	lb / kg
EV Charger Cable Operating Temperature Range	-22 to 122 / -30 to +50	°F/°C
Protection Rating (connected to EV or with dust cap)	NEMA 3R	

<sup>(5)</sup> Cellular connection may be used; requires a SIM card with a 1GB data plan that should be purchased from a cellular provider (6) Pending certification (7) EV charger cable ordered separately

