

EV Charging Single Phase Inverter

for Australia

SE3000H, SE5000H



2-in-1 EV Charger and Solar Inverter, Speeds Up Installation and EV Charging

- / Combines solar and grid power for faster EV charging
- / Maximises self-consumption and optimises use of renewable energy
- / An EV-ready solution, futureproofed for new EV purchase or replacement
- / Small, lightweight and easy to install indoors or outdoors
- / Supports full network connectivity and integrates seamlessly with the SolarEdge monitoring platform
- / Record-breaking 99% efficiency, powered by HD-wave technology
- / Designed to work with SolarEdge power optimisers
- / Built-in module-level monitoring
- / Flexible selection of charger cable types and lengths (cable and holder ordered separately)

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INVERTER SPECIFICATIONS:

	SE3000H	SE5000H	
	SEXXXXH-AUXXRBNV4		
OUTPUT			
Rated AC Power Output	3000	5000	VA
Max. AC Power Output	3000	5000	VA
AC Output Voltage (Nominal)	220 / 230		Vac
AC Output Voltage Range	184 - 264.5		Vac
AC Frequency (Nominal)	50 / 60 ± 5		Hz
Maximum Continuous Output Current	14	23	A
Total Harmonic Distortion (THD)	< 3		A
Power Factor	1, adjustable -0.8 to 0.8		
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes		
INPUT			
Maximum DC Power	4650	7750	W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage	480		Vdc
Nominal DC Input Voltage	380		Vdc
Maximum Input Current	9	13.5	Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600k Ω Sensitivity		
Maximum Inverter Efficiency	99.2		%
CEC Weighted Efficiency	98.8	99	%
Nighttime Power Consumption	< 2.5		W
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485, Ethernet, ZigBee for Smart Energy ⁽¹⁾ (optional), Wi-Fi (requires antenna) ⁽²⁾		
Smart Energy Management	Export Limitation and Excess Solar Charging ⁽³⁾		
Inverter Commissioning	with the SetApp mobile application using built-in Wi-Fi access point for local connection		
STANDARD COMPLIANCE			
Safety	IEC62109, AS/NZS3100		
Grid Connection Standards	AS/NZS4777:2015		
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC Part 15 Class B		
INSTALLATION SPECIFICATIONS			
AC Output Conduit Size / Wire cross section	25mm Maximum / 1-13 mm ²		
DC Input Conduit Size / # of Strings / Wire cross section	25mm Maximum / 1-2 strings / 1-13 mm ²		
Dimensions with Connection Unit with Safety Switch (HxWxD)	450 x 370 x 174		mm
Weight with Connection Unit with Safety Switch	10	11.4	kg
Noise	<25		dBA
Cooling	Natural Convection		
Operating Temperature Range	-40 to +60 ⁽⁴⁾		°C
Protection Rating	IP65 — Outdoor and Indoor		

(1) For more information refer to: <https://www.solaredge.com/sites/default/files/se-zigbee-plug-in-wireless-communication-for-setapp-datasheet-au.pdf>

(2) Wi-Fi connectivity requires an external antenna. For more information refer to: <https://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf>

(3) Import/Export meter is required for Export Limitation and for controlled Excess Solar charging

(4) Full power up to at least 50°C/122°F . For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>

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EV CHARGER AND EV CHARGER CABLE SPECIFICATIONS:

OUTPUT — AC (EV CHARGER)		
Charging Mode	AC Level 2 / Mode 3	
Minimum Charge Rate ⁽⁵⁾	1.5	kW
Rated AC Power Output (grid & PV) ⁽⁶⁾	7400	W
Nominal AC Output Voltage	230	Vac
Nominal AC Frequency	50 / 60	Hz
Maximum Continuous Output Current @230V (grid & PV)	32	Aac
Residual Current Detector (AC)	30	mA rms
ADDITIONAL FEATURES		
EV Charger Status LEDs, Fault Indicator	Yes	
EV Charger Ground Connection Monitoring	Yes, continuous	
EV Charger Configuration	Via the monitoring app; Ethernet or Wi-Fi connection is required	
EV Charger Unplugging Detection	Yes, current termination according to IEC62196	
STANDARD COMPLIANCE		
Safety	IEC 61851, IEC 62752:2016	
EV Charger	IEC 62196	
INSTALLATION SPECIFICATIONS		
EV Charger Connector	IEC 62196 Type 1 or Type 2	
EV Charger Cable Length ⁽⁷⁾	7.6 (4.5 option)	m
EV Charger Cable Weight	5.7 (3.5 for 4.5m option)	kg
EV Charger Cable Operating Temperature Range	-30 to +50	°C
Protection Rating (connected to EV or with dust cap)	IP54	

(5) Minimum charge rate is in compliance with IEC61851-1 and J1772™ FEB2016 standards.

(6) Minimum charge rate 1.5kW

(7) EV charger cable ordered separately