

HD-Wave Genesis Inverter

For Australia and New Zealand

SE3000H, SE5000H, SE6000H, SE8250H, SE10000H

INVERTERS



DC-optimised residential PV system that easily fits any roof

- Single string design for inverters up to 5kW AC
- Rapid inverter commissioning via smartphone using SetApp
- Faster, simpler installations with maximum design flexibility
- Advanced safety features including SafeDC™ and integrated arc fault protection
- Record-breaking inverter efficiency for more energy production
- Compact, lightweight and easy to install
- Specifically designed to work with SolarEdge power optimisers for higher energy yield
- Supports Wi-Fi communications (sold separately)
- Battery-ready solution supporting on-grid storage
- IP65-rated, suitable for outdoor and indoor installation

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	SE3000H	SE5000H	SE6000H	SE8250H	SE10000H	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-AULXXBXX4					
OUTPUT						
Rated AC Power Output	3000	5000	6000	8250	10000	VA
Maximum AC Power Output	3000	5000	6000	8250	10000	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	27.5	37.5	45.5	A
Total Harmonic Distortion (THD)	< 3					%
Power Factor	1, adjustable -0.8 to 0.8					
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Short Circuit Current from the PV Array	14	23	27.5	37.5	45.5	A
INPUT						
Maximum DC Power	4650	7750	9300	12785	15500	W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	480					Vdc
Nominal DC Input Voltage	380		400			Vdc
Maximum Input Current	9	13.5	16.5	22	25.5	Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600kΩ sensitivity per unit					
Maximum Inverter Efficiency	99.2					%
European Weighted Efficiency	98.8	99				%
Nighttime Power Consumption	< 2.5					W
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Wi-Fi (optional) ⁽¹⁾					
Smart Energy Management ⁽²⁾	Export limitation					
Arc Fault Protection	Integrated, user configurable (according to UL1699B)					
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/NSZ 4777.2:2020, EN 50549-1					
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			25mm maximum / 1-3 strings / 1-13 mm ²		
Dimensions with Safety Switch (H x W x D)	450 x 370 x 174			540 x 370 x 185		mm
Weight with Safety Switch	10	11.4	11.9	17.6		kg
Noise	< 25			< 50		dBA
Cooling	Natural convection					
Operating Temperature Range	-40 to +60 ⁽³⁾					°C
Protection Rating	IP65, suitable for outdoor and indoor installations					
Maximum Altitude	3000					m
Manufacturing Countries	China / Vietnam / Hungary					

(1) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge sales person or refer to: <https://www.solaredge.com/aus/products/communication>

(2) To support export limitation, the SolarEdge energy meter is required. For more details ask your SolarEdge sales person or refer to: <https://www.solaredge.com/aus/products/metering-and-sensors/solaredge-modbus-meter/>

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