

SolarEdge Home Genesis Inverter

For Australia and New Zealand

SE3000H / SE5000H / SE6000H / SE8250H / SE10000H



DC-optimised residential PV system that easily fits any roof

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

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Applicable to inverters with part number	SEXXXXH-AULXXBXX4					Units
	SE3000H	SE5000H	SE6000H	SE8250H	SE10000H	
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					
Over Voltage Category AC Port	OVC III					
Over Voltage Category DC Port	OVC I					
Protective Class	1					
Active Anti-islanding Method	Frequency Shift					
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	6000	10000	12000	165000	20000	W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	480					Vdc
Nominal DC Input Voltage	380			400		Vdc
Maximum Input Current	8.5	14	16.5	22.5	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	SolarEdge Home Network, RS485, Ethernet, Wi-Fi (built-in)					
Smart Energy Management ⁽¹⁾	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	IEC 62109; AS/NZ S3100					
Grid Connection Standards	AS/NSZ 4777.2:2020; EN 50549-1					
Emissions	IEC 61000-6-2; IEC 61000-6-3; IEC 61000-3-11; IEC 61000-3-12; 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 ⁽²⁾					°C
Operating Humidity (RH)	Up to 100%, condensing					%
Protection Rating	IP65, suitable for outdoor and indoor installations					
Maximum Altitude	3000					m
Manufacturing Countries	Vietnam / Hungary					

(1) To support export limitation, the SolarEdge energy meter is required. For more details ask your SolarEdge salesperson or refer to [Energy Meter with Modbus Connection](#).

(2) Full power up to at least 50°C. For power derating information refer to the [Temperature Derating Technical Note](#).