

SolarEdge Home Hub Inverter

For Australia and New Zealand

SE3000H-MM / SE5000H-MM / SE6000H-MM /
SE8250H-MM / SE10000H-MM

HOME
BACKUP



Optimised battery storage with HD-Wave technology

- Single string design for inverters up to 5kW AC
- Record-breaking 99% weighted efficiency with up to 300% DC oversizing, for higher energy yield
- Modular design, future ready with optional upgrades enabling:
 - Full home backup power
 - High efficiency DC-coupled storage
 - Backup generator connection
 - EV charging with SolarEdge Home EV Charger
- Built-in consumption monitoring, including built-in Current Transformer (CT)
- Multi-inverter, scalable storage solution
- Advanced safety features including SafeDC™, rapid shutdown, and integrated arc fault protection
- Built-in panel-level monitoring
- Rapid inverter commissioning via smartphone using SetApp
- Small, lightweight, and easy to install
- IP65-rated, for indoor and outdoor installations
- Integrated SolarEdge Home Network and Wi-Fi communication, including Wi-Fi Gateway

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	SE3000H-MM	SE5000H-MM	SE6000H-MM	SE8250H-MM	SE10000H-MM	UNITS
OUTPUT – AC ON GRID						
Rated AC Power	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 Range (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 -0.9 to 0.9					
Over Voltage Category AC Port	OVC III					
Over Voltage Category DC Port	OVC II					
Protective Class	1					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
Active Anti-Islanding Method	Frequency Shift					
Charge Battery from AC (if allowed)	Yes					
Typical Nighttime Power Consumption	<2.5					W
OUTPUT – AC BACKUP⁽²⁾						
Rated AC Power in Backup Operation	2700	4500	5400	7500	9000	W
AC Output Voltage (Nominal)	220 / 230					Vac
AC Output Voltage Range	184 – 264.5					Vac
AC Frequency	50/60 ± 5					Hz
Maximum Continuous Output Current in Backup Operation	14	21	25	34	41	A
INPUT – DC (PV AND BATTERY)						
Transformer-less, Ungrounded	Yes					
Max Input Voltage	480					Vdc
Nom DC Input Voltage	380					Vdc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600kΩ Sensitivity					
Maximum DC PV Power	9000	15,000	18,000	22,000	22,000	W
Maximum Input Current ⁽³⁾	8.5	14	16.5	22.5	25.5	Adc
Maximum Inverter Efficiency	99.2					%
European Weighted Efficiency	98.8	99				%
2-pole Disconnection	Yes					
BATTERY STORAGE						
Supported Battery Types	SolarEdge Home Battery					
Number of Batteries per Inverter	Up to 3 SolarEdge Home Batteries					
Continuous Power	Up to inverter rated power					
SMART ENERGY CAPABILITIES						
Consumption Metering	Built-in ⁽⁴⁾					
Battery Storage	In backup: Up to 3 inverters, 88.2kWh with SolarEdge Home Battery					
EV Charging	Smart EV ready – separate EV charger and cabling required					

(1) These specifications apply to inverters with part numbers SExxxxH-AUSNxxxx and connection unit model number DCD-1PH-AU-PxH-F-x.

(2) Not designed for standalone applications and requires AC for commissioning.

(3) A higher current source may be used; the inverter will limit its input current to the values stated.

(4) Consumption Meter Current Transformer (CT) included in box.

/ SolarEdge Home Hub Inverter

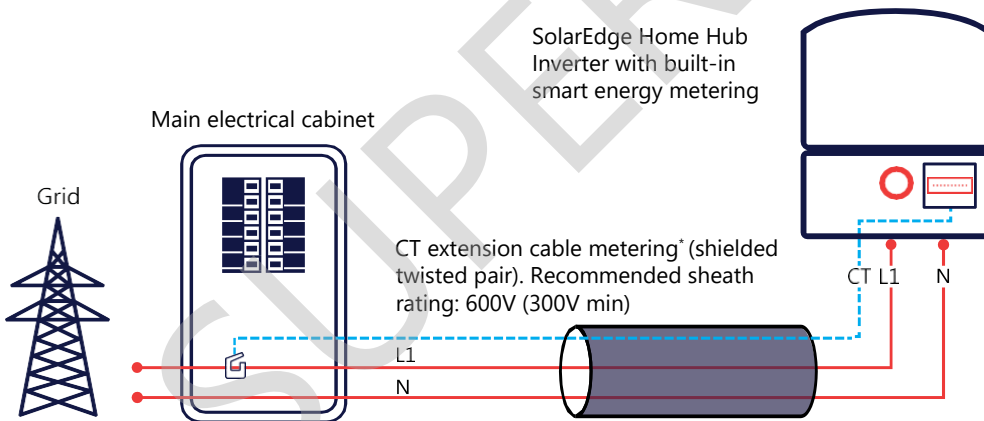
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ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485 – Modbus devices; RS485 – SE protocol; Ethernet; Wi-Fi; SolarEdge Home Network					
Integrated AC, DC and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
STANDARD COMPLIANCE						
Safety	IEC 62103 (EN 50178); IEC 62109; AS/NZS3100					
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					
INSTALLATION SPECIFICATIONS						
AC Output and DC Input Conduit Size / Wire Cross Section	32mm maximum / 1 – 16mm ²					
Dimensions with Connection Unit (H x W x D)	450 x 370 x 174			540 x 370 x 185		mm
Weight with Connection Unit	<15					kg
Communication Glands	2					
Noise	<25			<50		dB(A)
Cooling	Natural convection					
Operating Temperature Range	(-)40 to (+)60 ⁽⁵⁾					
Operating Humidity (RH)	Up to 100%, condensing					
Maximum Altitude	3000					
Protection Rating	IP65 – outdoor and Indoor					
Manufacturing Countries	Vietnam / Hungary					

(5) Full power up to at least 50°C; for power derating information refer to the [Temperature Derating](#) technical note.

Connecting CTs to the Revenue Grade and Consumption Meter



* One CT for import/export or consumption metering

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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