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
- 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

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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					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
Charge Battery from AC (if allowed)	Yes					
Typical Nighttime Power Consumption	<2.5					W
OUTPUT – AC BACKUP(2)						
Rated AC Power in Backup Operation(3)	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(4)	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	15000	18000	22000	22000	W
Maximum Input Current(5)	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(6)					
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-AUS3xxxxx and connection unit model number DCD-1PH-AU-PxH-F-x.
(2) Not designed for standalone applications and requires AC for commissioning.
(3) Rated AC Power in Backup Operation is valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in backup is 90% of the stated value,
(4) Maximum Continuous Output Current in Backup Operation is valid for installations with multiple inverters. For a single backup inverter operation, rated current in backup is 90% of the stated value.
(5) A higher current source may be used; the inverter will limit its input current to the values stated.
(6) For consumption metering current transformers should be ordered separately: SE-CTML-0350-070 or SE-ACT-0750-100 or SE-ACT-0750-250.

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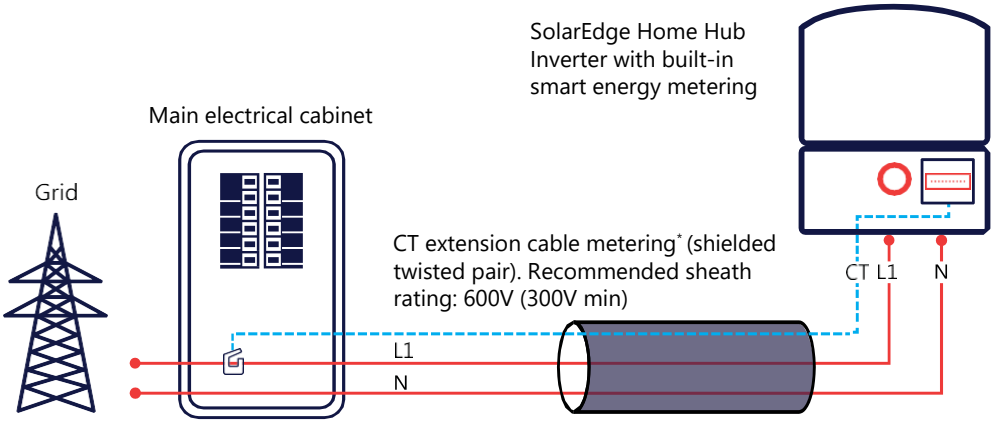
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485 - Modbus devices; RS485 - SE protocol; Ethernet; Wi-Fi; SolarEdge Home Network					
Integrated AC, DC and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
STANDARD COMPLIANCE						
Safety	IEC-62103 (EN50178), IEC-62109, 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					
INSTALLATION SPECIFICATIONS						
AC Output and DC Input Conduit Size / Wire Cross Section	32 mm Maximum / 1 – 16 mm2					
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		dBA
Cooling	Natural convection					
Operating Temperature Range	-40 to +60(7)					°C
Protection Rating	IP65 - Outdoor and Indoor					
Manufacturing Countries	China / Vietnam / Hungary					

(7) Full power up to at least 50°C; for power de-rating information refer to the Temperature De-rating 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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