SolarEdge Home Hub Universal Inverter

For Australia and New Zealand

SE10000H-MM

HOME BACKUP

Single phase inverter for storage and backup applications

- The ultimate home energy manager, supports future homeowner needs with optional upgrades enabling:
  - Full home backup power*
  - High efficiency DC-coupled storage
  - EV charging with SolarEdge Home EV Charger
- Record-breaking 99% weighted efficiency with up to 300% DC oversizing, for higher energy yield
- Built-in import/export meter with a supplied 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 and visibility of battery status, PV production, and self-consumption data
- Advanced reliability with automotive-grade components
- Rapid inverter commissioning via smartphone using SetApp
- IP65-rated, for indoor and outdoor installations
- Includes a communication kit for seamless integration with the complete SolarEdge Home Ecosystem through SolarEdge Home Network and Wi-Fi communication, including a Wi-Fi Gateway

*Requires additional hardware and firmware version upgrade.

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SE10000H-MM[1]

	SE10000H-MM	UNITS
OUTPUT – AC ON GRID		
Rated AC Power	10,000	VA
Maximum AC Power Output	10,000	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	45.5	A
Over Voltage Category AC Port	OVC III	
Over Voltage Category DC Port	OVC II	
Total Harmonic Distortion (THD)	<3	%
Power Factor	1, adjustable -0.8 to 0.8	
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	10,000	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	45.5	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	22,000	W
Maximum Input Current[3]	25.5	Adc
Maximum Inverter Efficiency	99.2	%
European Weighted Efficiency	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 according to the operation mode (on-grid or backup)	
SMART ENERGY CAPABILITIES		
Import/Export 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-AUSNxxxxx 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) Import/Export Meter Current Transformer (CT) included in the box.

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SE10000H-MM(1)

	SE10000H-MM	UNITS
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	32 mm Maximum / 1 – 16 mm^2	
Dimensions with Connection Unit (H x W x D)	540 x 370 x 185	mm
Weight with Connection Unit	<20.3	kg
Communication Glands	2	
Noise	<50	dBA
Cooling	Natural convection	
Operating Temperature Range	(-)40 to (+)60(5)	°C
Maximum Altitude	3000	m
Protection Rating	IP65 – outdoor and Indoor	
Manufacturing Country	Vietnam	

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

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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