

# SolarEdge Home Hub Universal Inverter

For Australia, Colombia, and Ecuador  
SE5000H-MM / 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 200% 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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### SE5000H-MM / SE10000H-MM<sup>(1)</sup>

| Applicable to inverters with part number                                  |   | SExxxxxH-AUSNKBY16   |             | UNITS |
|---|---|--|-------------|-------|
| Model Number  |   | SE5000H-MM   | SE10000H-MM |       |
| <b>OUTPUT – AC ON GRID</b>  |   |  |             |       |
| Rated AC Power  |   | 5000   | 10,000      | VA    |
| Maximum AC Power Output   |   | 5000   | 10,000      | VA    |
| AC Output Voltage (Nominal)   |   | 220 – 230/240  |             | Vac   |
| AC Output Voltage Range   |   | 184 – 264.5  |             | Vac   |
| AC Frequency Range (Nominal)  |   | 50/60 ± 5  |             | Hz    |
| Maximum Continuous Output Current   |   | 23   | 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     |
| <b>OUTPUT – AC BACKUP<sup>(2)</sup></b>                                   |   |  |             |       |
| @50Hz<br>(e.g., Australia)  | Maximum Rated AC Power in Backup Operation            | 10,000   |             | W     |
|   | AC Frequency  | 50 ± 5   |             | Hz    |
|   | Maximum Continuous Output Current in Backup Operation | 45.5   |             | A     |
|   | Fault Current Protection (50µs)                       | 70   |             | A     |
|   | AC Output Voltage (Nominal)                           | 220 – 230  |             | Vac   |
| @60Hz<br>(e.g., Colombia/Ecuador)   | Maximum Rated AC Power in Backup Operation            | 12,500 <sup>(3)(4)</sup>   |             | W     |
|   | AC Frequency  | 60 ± 5   |             | Hz    |
|   | Maximum Continuous Output Current in Backup Operation | 52   |             | A     |
|   | Fault Current Protection (50µs)                       | 74   |             | A     |
|   | AC Output Voltage (Nominal)                           | 240  |             | Vac   |
| AC Output Voltage (Range)   |   | 184 – 264.5  |             | Vac   |
| <b>INPUT – DC (PV AND BATTERY)</b>  |   |  |             |       |
| 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   |   | 15,000   | 22,000      | W     |
| Maximum Input Current <sup>(5)</sup>                                      |   | 14   | 25.5        | Adc   |
| Maximum Inverter Efficiency   |   | 99.2   |             | %     |
| European Weighted Efficiency  |   | 98.5   | 99          | %     |
| 2-pole Disconnection  |   | Yes  |             |       |
| <b>BATTERY STORAGE</b>  |   |  |             |       |
| 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) |             |       |
| <b>SMART ENERGY CAPABILITIES</b>  |   |  |             |       |
| Import/Export Metering  |   | Built-in <sup>(6)</sup>  |             |       |
| 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) Operational only at ambient temperatures up to 30°C. Above 30°C, the Maximum Rated AC Power in Backup Operation is 10,000W.

(4) In multi-inverter installations, the Maximum Rated AC Power in Backup Operation is limited to 10,000W.

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

(6) Import/Export Meter Current Transformer (CT) included in the box.

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### SE5000H-MM / SE10000H-MM<sup>(1)</sup>

| Applicable to inverters with part number                 | SExxxxxH-AUSNKBY16  |             |       |
|--|---|-------------|-------|
| Model Number   | SE5000H-MM  | SE10000H-MM | UNITS |
| <b>ADDITIONAL FEATURES</b>                               |   |             |       |
| 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 |             |       |
| <b>STANDARD COMPLIANCE</b>                               |   |             |       |
| 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                              |             |       |
| <b>INSTALLATION SPECIFICATIONS</b>                       |   |             |       |
| AC Output and DC Input Conduit Size / Wire Cross Section | 32 mm Maximum / 1 – 16 mm <sup>2</sup>  |             |       |
| 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 <sup>(6)</sup>   |             | °C    |
| Maximum Altitude   | 3000  |             | m     |
| Protection Rating  | IP65 – outdoor and Indoor   |             |       |
| Manufacturing Country                                    | USA   |             |       |

(7) 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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