

# SolarEdge Home Hub Inverter

## Single Phase, for Europe / India / Philippines

SE2200H / SE3000H / SE3680H / SE4000H / SE5000H /  
SE6000H / SE8000H / SE10000H



### Single phase inverter for storage and backup applications, with one part number for all power classes

- The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage\*, and smart energy devices
- One part number for all power classes, streamlining every step:
  - Unified product configuration simplifies ordering, logistics, and inventory
  - Optimized system design, selection, and installation
- Record-breaking up to 99% weighted efficiency with up to 200% DC oversizing
- Integrates seamlessly with the complete SolarEdge Home ecosystem, through the SolarEdge Home Network
- Small, lightweight, and easy to install
- Advanced safety features with integrated arc fault protection
- Module-level monitoring and full visibility of battery status, PV production, and self-consumption data
- A scalable solution that supports future homeowner needs through easy connection to a growing ecosystem of products

\* Backup applications are subject to local regulations and require a connection to the SolarEdge Home Batteries and the SolarEdge Home Backup Interface.

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SE8000H / SE10000H

| Applicable to inverters with part number                                  |                                                       | SE10000H-RWSKBF57 <sup>(1)</sup> |         |         |                     |                     |                           |         |          | Units |
|---------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|---------|---------|---------------------|---------------------|---------------------------|---------|----------|-------|
|                                                                           |                                                       | SE2200H                          | SE3000H | SE3680H | SE4000H             | SE5000H             | SE6000H                   | SE8000H | SE10000H |       |
| OUTPUT – AC ON GRID                                                       |                                                       |                                  |         |         |                     |                     |                           |         |          |       |
| Rated AC Power                                                            | 2200                                                  | 3000                             | 3680    | 4000    | 5000 <sup>(2)</sup> | 6000 <sup>(2)</sup> | 8000                      | 10,000  | VA       |       |
| Maximum AC Power Output                                                   | 2200                                                  | 3000                             | 3680    | 4000    | 5000 <sup>(2)</sup> | 6000 <sup>(2)</sup> | 8000                      | 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 RMS                                     | 10                                                    | 14                               | 16      | 18.5    | 23                  | 27.5                | 36.5                      | 45.5    | A        |       |
| Fault Current Protection (100ms)                                          | 40                                                    |                                  |         |         |                     |                     | 70                        |         | A        |       |
| Total Harmonic Distortion (THD)                                           | < 3                                                   |                                  |         |         |                     |                     |                           |         | %        |       |
| Power Factor                                                              | 1, adjustable -0.9 to 0.9                             |                                  |         |         |                     |                     | 1, adjustable -0.8 to 0.8 |         |          |       |
| 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                                                        |                                                       |                                  |         |         |                     |                     |                           |         |          |       |
| @50Hz                                                                     | Maximum AC Power in Backup Operation                  | 10,000 <sup>(3)</sup>            |         |         |                     |                     |                           |         | W        |       |
|                                                                           | AC Frequency                                          | 50 ± 5                           |         |         |                     |                     |                           |         | Hz       |       |
|                                                                           | Maximum Continuous Output Current in Backup Operation | 45.5                             |         |         |                     |                     |                           |         | A        |       |
|                                                                           | Fault Current Protection (100ms)                      | 70                               |         |         |                     |                     |                           |         | A        |       |
|                                                                           | AC Output Voltage (Nominal)                           | 220 – 230                        |         |         |                     |                     |                           |         | Vac      |       |
| @60Hz                                                                     | Maximum AC Power in Backup Operation                  | 12,500 <sup>(4)</sup>            |         |         |                     |                     |                           |         | W        |       |
|                                                                           | AC Frequency                                          | 60 ± 5                           |         |         |                     |                     |                           |         | Hz       |       |
|                                                                           | Maximum Continuous Output Current in Backup Operation | 52                               |         |         |                     |                     |                           |         | A        |       |
|                                                                           | Fault Current Protection (100ms)                      | 74                               |         |         |                     |                     |                           |         | A        |       |
|                                                                           | AC Output Voltage (Nominal)                           | 240                              |         |         |                     |                     |                           |         | Vac      |       |
| AC Output Voltage (Range)                                                 |                                                       | 184 – 264.5                      |         |         |                     |                     |                           |         | Vac      |       |
| INPUT – DC (PV AND BATTERY)                                               |                                                       |                                  |         |         |                     |                     |                           |         |          |       |
| Transformer-less, Ungrounded                                              |                                                       | Yes                              |         |         |                     |                     |                           |         |          |       |
| Maximum Input Voltage                                                     |                                                       | 480                              |         |         |                     |                     |                           |         | Vdc      |       |
| Nominal DC Input Voltage                                                  |                                                       | 380                              |         |         |                     |                     |                           |         | Vdc      |       |
| Ground-Fault Isolation Detection                                          |                                                       | 600kΩ Sensitivity per Unit       |         |         |                     |                     |                           |         |          |       |
| Maximum DC PV Power                                                       |                                                       | 4400                             | 6000    | 7360    | 8000                | 10,000              | 12,000                    | 16,000  | 20,000   | W     |
| Maximum Input Current                                                     |                                                       | 6.5                              | 9.0     | 10.5    | 11.5                | 13.5                | 16.5                      | 20.5    | 25.5     | Adc   |
| Isc PV                                                                    |                                                       | 6.5                              | 9.0     | 10.5    | 11.5                | 13.5                | 16.5                      | 20.5    | 25.5     | Adc   |
| Maximum Inverter Efficiency                                               |                                                       | 99.2                             |         |         |                     |                     |                           |         | %        |       |
| European Weighted Efficiency                                              |                                                       | 98.3                             | 98.8    |         |                     | 99                  |                           |         | %        |       |
| Reverse-Polarity Protection                                               |                                                       | Yes                              |         |         |                     |                     |                           |         |          |       |

(1) On-site commissioning to selected power rating using SolarEdge Go. For details about the inverters approved for installation in your country, see [here](#).

(2) 4600 VA AC / 7130 VA DC in Germany.

(3) The default AC power in backup operation for each model is equal to its rated AC power in on-grid mode. The AC power in backup operation is selectable within the range of 3,000W to 10,000W for all models. Ensure that the protective device and CSA of the cable are correct for the selected power in backup mode.

(4) Operational only at ambient temperatures up to 30°C. Above 30°C, the Maximum Rated AC Power in Backup Operation is 11,400W.

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| Applicable to inverters with part number            | SE10000H-RWSKBF57 <sup>(1)</sup>                                                                                                                                                              |         |         |         |         |         |                                                            |          | Units           |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|------------------------------------------------------------|----------|-----------------|
|                                                     | SE2200H                                                                                                                                                                                       | SE3000H | SE3680H | SE4000H | SE5000H | SE6000H | SE8000H                                                    | SE10000H |                 |
| BATTERY STORAGE                                     |                                                                                                                                                                                               |         |         |         |         |         |                                                            |          |                 |
| Supported Battery Models                            | SolarEdge Home Battery 400V                                                                                                                                                                   |         |         |         |         |         |                                                            |          |                 |
| Number of Batteries per Inverter                    | Up to 3                                                                                                                                                                                       |         |         |         |         |         |                                                            |          |                 |
| Continuous Power                                    | 5000W per battery, total continuous discharge power is limited up to the inverter rated AC power for on-grid and backup applications                                                          |         |         |         |         |         |                                                            |          | W               |
| SMART ENERGY CAPABILITIES                           |                                                                                                                                                                                               |         |         |         |         |         |                                                            |          |                 |
| Backup and Battery Storage                          | With Backup Interface (purchased separately) for service up to 100A; up to 3 SolarEdge single phase inverters                                                                                 |         |         |         |         |         |                                                            |          |                 |
| ADDITIONAL FEATURES                                 |                                                                                                                                                                                               |         |         |         |         |         |                                                            |          |                 |
| Supported Communication Interfaces                  | RS485; Ethernet; Wi-Fi (optional); LTE (optional); SolarEdge Home Network                                                                                                                     |         |         |         |         |         |                                                            |          |                 |
| Integrated AC, DC and Communication Connection Unit | Built-in                                                                                                                                                                                      |         |         |         |         |         |                                                            |          |                 |
| Inverter Commissioning                              | Inverter Commissioning with the SolarEdge Go mobile application using built-in Wi-Fi Access Point for local connection                                                                        |         |         |         |         |         |                                                            |          |                 |
| Arc Fault Protection                                | Integrated, user configurable (according to UL 1699B:2018)                                                                                                                                    |         |         |         |         |         | Integrated, user configurable (according to UL 1699B:2011) |          |                 |
| STANDARD COMPLIANCE                                 |                                                                                                                                                                                               |         |         |         |         |         |                                                            |          |                 |
| Safety                                              | IEC 62109; IS 16221-2                                                                                                                                                                         |         |         |         |         |         |                                                            |          |                 |
| Grid Connection Standards                           | VDE-AR-N 4105; Tor Erzeuger Typ A; EN 50549-1; CEI 0-21, G98 Type A; G98 NI Type A; RD 1699 / RD 413 / NTS; VDE-V 0126-1-1; VFR 2019; C10/11; G100; IS 16169; IEC 61683; IEC 62116; IEC 61727 |         |         |         |         |         |                                                            |          |                 |
| Electromagnetic Compatibility (EMC)                 | IEC 61000-6-2; IEC 61000-6-3; EN/IEC 61000-3-2; EN/IEC 61000-3-3; IEC 61000-3-11; IEC 61000-3-12; EN 55011                                                                                    |         |         |         |         |         |                                                            |          |                 |
| INSTALLATION SPECIFICATIONS                         |                                                                                                                                                                                               |         |         |         |         |         |                                                            |          |                 |
| Warranty                                            | 12 (standard) / extendable up to 25 (optional) years, with an 8-year warranty applicable to systems installed in India <sup>(5)</sup>                                                         |         |         |         |         |         |                                                            |          |                 |
| AC Output – Supported Cable Diameter                | 9 – 16                                                                                                                                                                                        |         |         |         |         |         |                                                            |          | mm              |
| AC – Supported Wire Cross Section                   | 1 – 13                                                                                                                                                                                        |         |         |         |         |         |                                                            |          | mm <sup>2</sup> |
| Dimensions with Connection Unit (H x W x D)         | 535 x 370 x 185                                                                                                                                                                               |         |         |         |         |         |                                                            |          | mm              |
| DC Input                                            | 3 x MC4 pairs for PV input; 1 x MC4 pair for battery input                                                                                                                                    |         |         |         |         |         |                                                            |          |                 |
| Weight                                              | 19.6                                                                                                                                                                                          |         |         |         |         |         |                                                            |          | kg              |
| Cooling                                             | Natural convection                                                                                                                                                                            |         |         |         |         |         |                                                            |          |                 |
| Noise                                               | < 25                                                                                                                                                                                          |         |         |         |         |         |                                                            |          | dBA             |
| Operating Temperature Range                         | -40 to +60                                                                                                                                                                                    |         |         |         |         |         |                                                            |          | °C              |
| Protection Rating                                   | IP65 – outdoor and indoor                                                                                                                                                                     |         |         |         |         |         |                                                            |          |                 |

(5) For specific warranty details of the SolarEdge Home Hub Single Phase Inverter in India, refer to the [SolarEdge Limited Product Warranty \(India\)](#).



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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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