

SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾



HOME BACKUP

Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- Modular design, future ready with optional upgrades to:
 - DC-coupled storage for full or partial home backup
 - Built-in consumption monitoring
 - Direct connection to the SolarEdge Home EV Charger
- Multi-inverter, scalable storage solution
 - With enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5

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SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

| Applicable to inverters with part number | SEXxxxH-USSNBBXX4 | | | | SE11400H – XXXXXBXX5 | Units |
|---|---------------------------------|----------------------------|------------|-------------|-----------------------------|-------|
| | SE3800H-US | SE6000H-US | SE7600H-US | SE10000H-US | SE11400H-US | |
| OUTPUT – AC ON GRID | | | | | | |
| Rated AC Power | 3800 @ 240V 3300 @ 208V | 6000 @ 240V 5000 @ 208V | 7600 | 10000 | 11400 @ 240V 10000 @ 208 | W |
| Maximum AC Power Output | 3800 @ 240V 3300 @ 208V | 6000 @ 240V 5000 @ 208V | 7600 | 10000 | 11400 @ 240V 10000 @ 208 | W |
| AC Frequency Range (min - nom - max) | 59.3 – 60 – 60.5 ⁽²⁾ | | | | | Hz |
| Maximum Continuous Output Current @ 240V | 16 | 25 | 32 | 42 | 47.5 | A |
| Maximum Continuous Output Current @ 208V | 16 | 24 | - | - | 48.5 | A |
| GFDI Threshold | 1 | | | | | A |
| Total Harmonic Distortion (THD) | < 3 | | | | | % |
| Power Factor | 1, adjustable -0.85 to 0.85 | | | | | |
| 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⁽³⁾ | | | | | | |
| Rated AC Power in Backup Operation ⁽⁴⁾ | 3800 | 6000 | 7600 | 10300 | 10300 | W |
| | 7600* | | 10300* | | | |
| AC L-L Output Voltage Range in Backup | 211 – 264 | | | | | Vac |
| AC L-N Output Voltage Range in Backup | 105 – 132 | | | | | Vac |
| AC Frequency Range in Backup (min - nom - max) | 55 – 60 – 65 | | | | | Hz |
| Maximum Continuous Output Current in Backup Operation | 16 | 25 | 32 | 43 | 43 | A |
| | 32* | | 43* | | | |
| GFDI | 1 | | | | | A |
| THD | < 5 | | | | | % |
| OUTPUT – SOLAREEDGE HOME EV CHARGER AC | | | | | | |
| Rated AC Power | 9600 | | | | | W |
| AC Output Voltage Range | 211 – 264 | | | | | Vac |
| On-Grid AC Frequency Range (min - nom - max) | 59.3 – 60 – 60.5 | | | | | Hz |
| Maximum Continuous Output Current @240V (grid, PV and battery) | 40 | | | | | Aac |
| 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 | 600k Ω Sensitivity | | | | | |
| INPUT – DC (PV) | | | | | | |
| Maximum DC Power @ 240V | 7600 | 12000 | 15200 | 22000 | 22800 | W |
| | 15200* | | 22800* | | | |
| Maximum DC Power @ 208V | 6600 | 10000 | - | - | 20000 | W |
| Maximum Input Current ⁽⁵⁾ @ 240V | 10.5 | 16.5 | 20 | 27 | 31 | Adc |
| | 20* | | 31* | | | |
| Maximum Input Current ⁽⁵⁾ @ 208V | 9 | 13.5 | - | - | 27 | Adc |
| Max. Input Short Circuit Current | 45 | | | | | |
| Maximum Inverter Efficiency | 99.2 | | | | | % |
| CEC Weighted Efficiency | 99 | | | | 99 @ 240V 98.5 @ 208V | % |
| 2-pole Disconnection | Yes | | | | | |

* Supported with PN SExxxH-USMMxxxxx or SExxxH-USMNxxxxx.

(1) These specifications apply to inverters with part numbers SExxxH-USSMxxxxx or SExxxH-USSNxxxxx and connection unit model number DCD-1PH-US-PxH-F-x.

(2) For other regional settings please contact SolarEdge support.

(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid.

(4) 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 value stated.

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

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SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

| Applicable to inverters with part number | SEXXXXH-USSNBBXX4 | | | | SE11400H – XXXXXBXX5 | Units |
|---|--|-------------------------------------|--------------------------------------|--------------------------------------|--|---------|
| | SE3800H-US | SE6000H-US | SE7600H-US | SE10000H-US | SE11400H-US | |
| OUTPUT – DC (BATTERY) | | | | | | |
| Supported Battery Types | SolarEdge Home Battery, LG RESU Prime ⁽⁶⁾ | | | | | |
| Number of Batteries per Inverter | Up to 3 SolarEdge Home Battery, up to 2 LG RESU Prime | | | | | |
| Continuous Power ⁽⁷⁾ | 7600 | 10000 | | | | W |
| Peak Power ⁽⁷⁾ | 7600 | 10000 | | | | W |
| Max Input Current | 20 | 26.5 | | | | Adc |
| 2-pole Disconnection | Yes | | | | | |
| SMART ENERGY CAPABILITIES | | | | | | |
| Consumption Metering | Built-in ⁽⁸⁾ | | | | | |
| Backup & Battery Storage | With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters | | | | | |
| EV Charging | Direct connection to SolarEdge Home EV Charger | | | | | |
| ADDITIONAL FEATURES | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, Cellular ⁽⁹⁾ , Wi-Fi (optional), SolarEdge Home Network (optional) | | | | | |
| Revenue Grade Metering, ANSI C12.20 | Built-in ⁽⁸⁾ | | | | | |
| 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 | | | | | |
| DC Voltage Rapid Shutdown (PV and Battery) | Yes, according to NEC 2014, NEC 2017 and NEC 2020 690.12 | | | | | |
| STANDARD COMPLIANCE | | | | | | |
| Safety | UL1741, UL1741 SA, UL1741 SB, UL1741 PCS, UL1699B, UL1998, UL9540, CSA 22.2 | | | | | |
| Grid Connection Standards | IEEE1547-2018, Rule 21, Rule 14H | | | | | |
| Emissions | FCC part 15 class B | | | | | |
| INSTALLATION SPECIFICATIONS | | | | | | |
| AC Output and EV AC Output Conduit Size / AWG Range | 1" maximum / 14-4 AWG | | | | | |
| DC Input (PV and Battery) Conduit Size / AWG Range | 1" maximum / 14-6 AWG | | | | | |
| Dimensions with Connection Unit (H x W x D) | 17.7 x 14.6 x 6.8 / 450 x 370 x 174 | 17.7 x 14.6 x 6.8 / 450 x 370 x 174 | 17.7 x 14.6 x 6.8 / 450 x 370 x 174* | 21.06 x 14.6 x 7.3 / 535 x 370 x 185 | 21.06 x 14.6 x 8.2 / 535 x 370 x 208 ⁽¹⁰⁾ | in / mm |
| Weight with Connection Unit | 26 / 11.8 | 26 / 11.8 | 41.7 / 18.9* | 41.7 / 18.9 | 44.9 / 20.3 ⁽¹⁰⁾ | lb / kg |
| Noise | < 25 < 50* | < 25 | < 50 | | | dBA |
| Cooling | Natural Convection | | | | | |
| Operating Temperature Range | -40 to +140 / -40 to +60 ⁽¹¹⁾ | | | | | °F / °C |
| Protection Rating | NEMA 4 | | | | | |

(6) The part numbers SExxxxH-USxMxxxx only support the SolarEdge Home Battery. The part numbers SExxxxH-USxNxxxx support both SolarEdge Home Battery and LG RESU Prime batteries. Requires supporting inverter firmware.

(7) Discharge power is limited up to the inverter rated AC power for on-grid and backup applications.

(8) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering.

(9) Information concerning the Data Plan's terms & conditions is available in the following link: [SolarEdge Communication Plan Terms and Conditions](#).


(10) SE11400H-USxxxBxx5 is the updated PN, though SE11400H-USxxxBxx4 will still be available. All specifications are similar for both models, EXCLUDING the weight and dimensions [HxWxD]; The weight and dimensions of SE11400H-USxxxBxx4 are 17.6 [kg] and 21.06-14.6-7.3 / 535-370-185 [in/mm], accordingly.

(11) Full power up to at least 50°C / 122°F; for power de-rating information refer to the [Temperature De-Rating Technical Note for North America](#).

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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