

SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE7600H-US / SE9600H-US /
SE10000H-US / SE11400H-US



HOME BACKUP



USA-manufactured residential inverter for storage and backup, with a single part number for all power classes

- / Eligible for domestic content % towards the enhanced federal income tax credit*
- / One part number for all power classes, streamlining every step:
 - / Unified product configuration simplifies ordering, logistics, and inventory
 - / Optimized system design, selection, and installation
- / The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage**, EV Charging, and smart energy devices
- / Record-breaking 99% weighted efficiency with up to 200% DC oversizing
- / Able to start high LRA HVAC systems during backup operation
- / Integrates seamlessly with the complete SolarEdge Home Smart Energy Ecosystem, through the SolarEdge Home Network
- / Module-level monitoring and visibility of battery status, PV production, and self-consumption data
- / Integrated Wi-Fi antenna for enhanced communication reliability and simplicity
- / Fast and easy installation – small and lightweight, with reduced commissioning time
- / NEMA 4X-rated, for indoor and outdoor installations
- / A scalable solution that supports future homeowner needs through easy connection to a growing ecosystem
- / Advanced safety features with integrated arc fault protection and rapid shutdown for 690.11 and 690.12
- / Advanced reliability with automotive-grade components
- / Embedded revenue grade production data, ANSI C12.20 Class 0.5
- / Install larger systems while avoiding main panel upgrades with the embedded Power Control System (PCS)

* For more information on domestic content eligibility, see the [SolarEdge Domestic Content](#) application note.
** Requires additional hardware and firmware version upgrade.

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Applicable to inverters with part number	USE11400H-USSKBEZ8						
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE9600H-US	SE10000H-US	SE11400H-US	
OUTPUT – AC ON GRID							
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V 6600 @ 208V	9600 @ 240V 8300 @ 208V	10,000 @ 240V 8700 @ 208V	11,400 @ 240V 10,000 @ 208V	W
AC Output Voltage (Nominal)	208 / 240						Vac
AC Output Voltage (Range)	183 – 264						Vac
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾						Hz
Maximum Continuous Output Current	16	24	32	40	42	47.8	A
Maximum Fault Current / Duration	74 / 50						Aac / μ s
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 STANDALONE (BACKUP)⁽³⁾							
Rated AC Power in Standalone Operation ⁽⁴⁾	12,500 ⁽⁵⁾⁽⁶⁾						W
Maximum Continuous Output Current in Standalone Operation	52						A
Locked Rotor Amperage (LRA) ⁽⁷⁾	Up to 106						A
AC L-L Output Voltage Range in Standalone Operation	211 – 264						Vac
AC L-N Output Voltage Range in Standalone Operation	105 – 132						Vac
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65						Hz
GFDI	1						A
THD	< 5						%
INPUT – DC (PV AND BATTERY)							
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	480						Vdc
Nominal DC Input Voltage	395V @ 240Vac 380V @ 208Vac						Vdc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600k Ω Sensitivity						
Maximum Input Short Circuit Current	45						Adc
Maximum Inverter Efficiency	99.2						%
CEC Weighted Efficiency	99	99 @ 240V 98.6 @ 208V	98.7 @ 240V 98.6 @ 208V	99 @ 240V 98.6 @ 208V	99		%
2-Pole Disconnection	Yes						
DC CONNECTION – PV							
Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,200 @ 240V 13,200 @ 208V	19,200 @ 240V 16,600 @ 208V	20,000 @ 240V 17,400 @ 208V	22,800 @ 240V 20,000 @ 208V	W
Maximum Input Current	20 @ 240V 17.5 @ 208V	30 @ 240V 26.5 @ 208V	40 @ 240V 35 @ 208V	51 @ 240V 44 @ 208V	53 @ 240V 46 @ 208V	60 @ 240V 53 @ 208V	Adc
Number of Ports	3						
Maximum Current per Port	40						Adc

(1) These specifications apply to inverters with part number USE11400H-USSKBEZ8 and connection unit model number DCD-1PH-US-PxH-F-x.

(2) For other regional settings please refer to the [SolarEdge Inverters, Power Control Options](#) application note.

(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.

(4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 12,500W with a Maximum Continuous Output Current of 52A, from firmware version 4.23.xx.

(5) Operational only at ambient temperatures up to 86°F / 30°C. Above 86°F / 30°C, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(6) Available only for single inverter installations. In multi-inverter installations, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(7) For more information about LRA (Locked Rotor Amperage) values, see the [SolarEdge Home Hub Inverter LRA](#) application note.

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Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE9600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION – BATTERY							
Supported Battery Types	SolarEdge Home Battery 400V						
Number of Batteries per Inverter	Up to 3						
Maximum Continuous Power (Charge and Discharge) ⁽⁸⁾	12,500						W
Number of Ports	2						
Maximum Current per Port	40						Adc
2-pole Disconnection	Up to the inverter's rated standalone power						
SMART ENERGY CAPABILITIES							
Consumption Metering	Built-in ⁽⁹⁾						
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters						
EV Charging	Direct connection to the SolarEdge Home EV Charger ⁽¹⁰⁾						
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽¹¹⁾ (optional), Wi-Fi ⁽¹²⁾ , SolarEdge Home Network ⁽¹³⁾ (optional)						
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁹⁾						
Integrated AC, DC, and Communication Connection Unit	Yes						
Inverter Commissioning	With the SolarEdge Go mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12						
STANDARD COMPLIANCE							
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540						
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H						
Emissions	FCC Part 15 Class B						
Power Control System (PCS)	UL 1741 PCS ⁽¹⁴⁾						
INSTALLATION SPECIFICATIONS							
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection						
DC Terminals	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input						
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)	21.06 x 14.6 x 8.2 / 535 x 370 x 208						in / mm
Weight with Connection Unit	44.9 / 20.3						lb / kg
Noise	< 50						dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁵⁾						°F / °C
Protection Rating	NEMA 4X						

(8) Discharge power is limited up to the inverter's rated AC power for on-grid applications, and up to 12.5 kW for standalone applications, as well as up to the installed batteries' rating.

(9) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.

(10) For more information about the SolarEdge Home EV Charger, refer to the [SolarEdge Home EV Charger](#) datasheet.

(11) Purchased separately. Information concerning the data plan terms & conditions is available in [SolarEdge Communication Plan Terms and Conditions](#).

(12) External Wi-Fi antenna for wider range provided with the inverter's package. Refer to the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.

(13) SolarEdge Home Network Plugin ENET-HBNP-01 purchased separately. For more information, refer to the [SolarEdge Home Network Plugin](#) datasheet.

(14) Only part numbers USExxxxH-USMNXx7x/USE11400H-USSKBEZ8 support the PCS meter.

(15) Full power up to at least 122°F / 50°C. For power derating information refer to the [Temperature Derating for North America](#) 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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