SolarEdge Home Hub Inverter USA Domestic Content Eligible* Single Phase, for North America

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



HOME BACKUP



SolarEdge's USA-manufactured residential single phase inverter offering for storage and backup applications

- Eligible for domestic content percentage under the enhanced federal income tax credit*
- 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 SolarEdge Home Network
- Module-level monitoring and visibility of battery status, PV production, and self-consumption data

- 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 of products
- 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)

* As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the 'Rooftp' (MLPE)' category (under IRS Notice 2025-08). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (U650/U650B) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative. PN USExxxxxH-USMNBE78 contains the following domestically produced MPCs: per notice 2025-08*- Printed Circuit Board Assemblies, Enclosure (17.6%).

** Requires additional hardware and firmware version upgrade



SolarEdge Home Hub Inverter USA Domestic Content Eligible Single Phase, for North America

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

Applicable to inverters with part number	USExxxxH-USMNBE78							
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-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	10,000 @ 240V 8700 @ 208V	11,400 @ 240V 10,000 @ 208V	W		
AC Output Voltage (Nominal)	208 / 240							
AC Output Voltage (Range)	183 – 264							
AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5 ⁽²⁾							
Maximum Continuous Output Current	16	24	32	42	47.8	A		
Maximum Fault Current / Duration	90 / 50							
GFDI Threshold	1							
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							
OUTPUT – AC STANDALONE (BACKUP) ⁽³⁾								
Rated AC Power in Standalone Operation ⁽⁴⁾	12,5000 ⁽⁵⁾⁽⁶⁾							
Maximum Continuous Output Current in Standalone	52							
Locked Rotor Amperage (LRA) ⁽⁷⁾	Up to 106							
AC L-L Output Voltage Range in Standalone Operation	211 - 264							
AC L-N Output Voltage Range in Standalone Operation	105 - 132							
AC Frequency Range in Standalone Operation (min - nom - max)	55 - 60 - 65							
GFDI		1						
THD	< 5							
INPUT – DC (PV AND BATTERY)								
Transformer-less, Ungrounded			Yes					
Maximum Input Voltage	480							
Nominal DC Input Voltage	380							
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
Maximum Input Short Circuit Current	45							
Maximum Inverter Efficiency	99.2							
CEC Weighted Efficiency	98.5		9	99	99 @ 240V 98.5 @ 208V	%		
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	20,000 @ 240V 17,400 @ 208V	22,800 @ 240V 20,000 @ 208V	W		
Maximum Input Current	20 @ 240V 17 @ 208V	30 @ 240V 26 @ 208V	40 @ 240V 35 @ 208V	53 @ 240V 46 @ 208V	60 @ 240V 53 @ 208V	Adc		
Number of Ports	3							
Maximum Current per Port	40							

(1) These specifications apply to inverters with part number SExxxxxH-USMNBE78 and connection unit model number DCD-1PH-US-PxH-F-x.

(2) For other regional settings please refer to the <u>SolarEdge Inverters, Power Control Options</u> 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.



/ SolarEdge Home Hub Inverter **USA Domestic Content Eligible** Single Phase, for North America

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

Applicable to inverters with part number	USExxxxH-USMNBE78							
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US			
DC CONNECTION – BATTERY		1		1				
Supported Battery Types		SolarEdge Home Battery 400V						
Number of Batteries per Inverter	Up to 3							
Maximum Continuous Power (Charge and Discharge) ⁽⁸⁾	12,500							
Number of Ports	2							
Maximum Current per Port	40							
2-pole Disconnection		Up to the i	nverter's rated standa	lone 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⁾ , Wi-Fi (optional), SolarEdge Home Network ⁽¹²⁾ (optional)							
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁹⁾							
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, 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 ⁽¹³⁾							
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							
Weight with Connection Unit	44.9 / 20.3							
Noise	< 50							
Cooling	Natural Convection							
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁴⁾							
Protection Rating	NEMA 4X							

(8) Discharge power is limited up to the inverter's rated AC power for on-grid and 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) SolarEdge Home Network Plugin ENET-HBNP-01 purchased separately. For more information, refer to the SolarEdge Home Network Plugin datasheet.

(13) Only part numbers USExxxxxH-USMNxx7x support the PCS meter.

(14) 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.



- f SolarEdge
- ♥ @SolarEdgePV
- **O** @SolarEdge_US
- SolarEdge North America
- in SolarEdge
- www.solaredge.com/corporate/contact

solaredge.com

© SolarEdge Technologies, Ltd. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: April 29, 2025 DS-000272-NAM Subject to change without notice.

Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

solar<mark>edge</mark>