Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / 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 smart 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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	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNIT			
OUTPUT - AC ON GRID										
Rated AC Power	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W			
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W			
AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5 ⁽²⁾									
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	А			
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	Α			
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 BACKUP(3)										
Rated AC Power in Backup Operation ⁽⁴⁾	3000	3800 7600*	6000	7600 10300*	10000	10300	W			
AC L-L Output Voltage Range in Backup	211 - 264									
AC L-N Output Voltage Range in Backup	105 - 132									
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65									
Maximum Continuous Output Current in Backup Operation	12.5	16 32*	25	32 43*	42	43	А			
GFDI			1				Α			
THD	<5									
OUTPUT - SMART EV CHARGER AC							%			
Rated AC Power	9600									
AC Output Voltage Range	211 - 264									
On-Grid AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5									
Maximum Continuous Output Current @240V (grid, PV and battery)	40									
INPUT - DC (PV AND BATTERY)										
Transformer-less, Ungrounded	Yes									
Max Input Voltage	480									
Nom DC Input Voltage	380									
Reverse-Polarity Protection	Yes									
Ground-Fault Isolation Detection	600kΩ Sensitivity									
INPUT - DC (PV)										
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	22000	22800	W			
Maximum DC Power @ 208V	=	6600	10000	=	-	20000	W			
Maximum Input Current ⁽⁵⁾ @ 240V	8.5	10.5 20*	16.5	20 31*	27	31	Adc			
Maximum Input Current ⁽⁵⁾ @ 208V	-	9	13.5	-	-	27	Adc			
Max. Input Short Circuit Current	45									
Maximum Inverter Efficiency	99 99.2									
CEC Weighted Efficiency	99 @ 240V 98.5 @ 208V									
2-pole Disconnection	Yes									

^{*} Supported with PN SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx

⁽¹⁾ These specifications apply to inverters with part numbers SExxxxH-USSMxxxxx or SExxxxH-USSNxxxx 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 are 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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	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US SE11400H-US	UNITS		
INPUT - DC (BATTERY)								
Supported Battery Types	SolarEdge Energy Bank, LG RESU Prime ⁽⁶⁾							
Number of Batteries per Inverter	Up to 3 SolarEdge Energy Bank, up to 2 LG RESU Prime							
Continuous Power ⁽⁷⁾	6000	7600	10000			W		
Peak Power ⁽⁷⁾	6000	7600		100	000	W		
Max Input Current	16	20		26	5.5	Adc		
2-pole Disconnection	Yes							
SMART ENERGY CAPABILITIES						1		
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 Smart EV charger							
ADDITIONAL FEATURES	·							
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽⁹⁾ , Wi-Fi (optional), SolarEdge Energy Net (optional)							
Revenue Grade Metering, ANSI C12.20	Built - in [®]							
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 PCS, UL1699B, UL1998, UL9540, CSA 22.2							
Grid Connection Standards	IEEE1547, 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 1	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	in / mm		
Weight with Connection Unit		26 / 11.8			30.2 / 13.7	lb/kg		
Noise	< 25	< 25 < 50*	< 25		< 50	dBA		
Cooling	Natural Convection							
Operating Temperature Range		-40 to +140 / -40 to +60 ⁽¹⁰⁾						
Protection Rating	NEMA 4							

⁽⁶⁾ The part numbers SExxxxXH-USxMxxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxxx support both SolarEdge Energy Bank 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: https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf

⁽¹⁰⁾ Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf