SolarEdge Home Hub Inverter

Single Phase, for Europe

SE2500H / SE3000H / SE3680H / SE4000H / SE5000H / SE6000H / SE8000H / SE10000H

HOME BACKUP



Single phase inverter for storage and backup applications

- The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage*, and smart energy devices
- Record-breaking up to 99% weighted efficiency with up to 200% DC oversizing
- Integrates seamlessly with the complete SolarEdge Home ecosystem, through SolarEdge Home Network
- Small, lightweight, and easy to install
- Advanced safety features with integrated arc fault protection
- Enables 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

*Requires additional hardware and firmware version upgrade.

SolarEdge Home Hub Inverter

Single Phase, for Europe

SE2500H / SE3000H / SE3680H / SE4000H / SE5000H / SE6000H

Applicable to inverters with part number	SEXXXXH-RWBMNBF54						
	SE2500H(1)	SE3000H	SE3680H	SE4000H	SE5000H	SE6000H	Units
OUTPUT – AC ON GRID							
Rated AC Power	2500	3000	3680	4000	5000(2)	6000	VA
Maximum AC Power Output	2500	3000	3680	4000	5000(2)	6000	VA
AC Output Voltage (Nominal)	220 – 230						Vac
AC Output Voltage (Range)	184 – 264.5						Vac
AC Frequency Range (Nominal)	50 ± 5						Hz
Maximum Continuous Output Current RMS	12.0	14.0	16.0	18.5	23.0	27.5	A
Fault Current Protection (100ms)	40						A
Total Harmonic Distortion (THD)	< 3						%
Power Factor	1, adjustable -0.9 to 0.9						
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							
Rated AC Power in Backup Operation	6000						W
AC Output Voltage (Nominal)	220 – 230						Vac
AC Output Voltage (Range)	184 – 264.5						Vac
AC Frequency	50/60 ± 5						Hz
Maximum Continuous Output Current in Backup Operation	27.5						A
Fault Current Protection (100ms)	40						A
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	5000	6000	7360	8000	10,000	12,000	W
Maximum Input Current	7.0	9.0	10.5	11.5	13.5	16.5	Adc
Isc PV	7.0	9.0	10.5	11.5	13.5	16.5	Adc
Maximum Inverter Efficiency	99.2						%
European Weighted Efficiency	98.3	98.8			99		%
Reverse-Polarity Protection	Yes						
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(3)						
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 SetApp mobile application using built-in Wi-Fi Access Point for local connection						
Arc Fault Protection	Integrated, user configurable (according to UL 1699B:2018)						
STANDARD COMPLIANCE							
Safety	IEC 62109						
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; EN 50438; G100						
Electromagnetic Compatibility (EMC)	IEC 61000-6-2; IEC 61000-6-3; IEC 61000-3-11; IEC 61000-3-12; EN 55011						
INSTALLATION SPECIFICATIONS							
AC Output – Supported Cable Diameter	9 – 16						mm
AC – Supported Wire Cross Section	1 – 13						mm^2
Dimensions with Connection Unit (H x W x D)	459 x 370 x 154						mm
DC Input	2 x MC4 pairs for PV input; 1 x MC4 pair for battery input						
Weight	12						kg
Cooling	Natural convection						
Noise	< 25						dBA
Operating Temperature Range	-40 to +60						°C
Protection Rating	IP65 – outdoor and indoor						

(1) Only available in Poland, France, and Hungary. For details about the inverters approved for installation in your country, see here.
(2) 4600VA AC / 7130VA DC in Germany.
(3) Firmware update required.

SolarEdge Home Hub Inverter

Single Phase, for Europe

SE8000H(4) / SE10000H(4)

Applicable to inverters with part number	SEXXXXH-RWBMNBF54		Units
	SE8000H	SE10000H	
OUTPUT – AC ON GRID			
Rated AC Power	8000	10,000	VA
Maximum AC Power Output	8000	10,000	VA
AC Output Voltage (Nominal)	220 – 230		Vac
AC Output Voltage (Range)	184 – 264.5		Vac
AC Frequency Range (Nominal)	50/60 ± 5		Hz
Maximum Continuous Output Current RMS	36.5	45.5	A
Fault Current Protection (100ms)	70		A
Total Harmonic Distortion (THD)	< 3		%
Power Factor	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			
Rated AC Power in Backup Operation	10,000		W
AC Output Voltage (Nominal)	220 – 230		Vac
AC Output Voltage (Range)	184 – 264.5		Vac
AC Frequency	50/60 ± 5		Hz
Maximum Continuous Output Current in Backup Operation	45.5		A
Fault Current Protection (100ms)	70		A
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	16,000	20,000	W
Maximum Input Current	20.5	25.5	Adc
Isc PV	20.5	25.5	Adc
Maximum Inverter Efficiency	99.2		%
European Weighted Efficiency	99		%
Reverse-Polarity Protection	Yes		
BATTERY STORAGE			
Supported Battery Types	SolarEdge Home Battery 400V		
Number of Batteries per Inverter	Up to 3		
Continuous Power	5000W per battery(5)		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(6)		
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 SetApp mobile application using built-in Wi-Fi Access Point for local connection		
Arc Fault Protection	Integrated, user configurable (according to UL 1699B:2011)		
STANDARD COMPLIANCE			
Safety	IEC 62109		
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; EN 50438; G100		
Electromagnetic Compatibility (EMC)	IEC 61000-6-2; IEC 61000-6-3; IEC 61000-3-11; IEC 61000-3-12; EN 55011		
INSTALLATION SPECIFICATIONS			
AC Output – Supported Cable Diameter	9 – 16		mm
AC – Supported Wire Cross Section	1 – 13		mm^2
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	< 50		dBA
Operating Temperature Range	-40 to +60		°C
Protection Rating	IP65 – outdoor and indoor		

(4) Only available in the United Kingdom, Spain, and France. For details about the inverters approved for installation in your country, see here.
(5) The total continuous discharge power is limited up to the inverter rated AC power for on-grid and backup applications.
(6) Firmware update required.

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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