SolarEdge Home Hub Inverter

Single Phase, for Europe / India / Philippines

SE2200H / SE3000H / SE3680H / SE4000H / SE5000H / SE6000H / SE8000H / SE10000H

HOME BACKUP



Single phase inverter for storage and backup applications, with one part number for all power classes

- The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage*, and smart energy devices
- One part number for all power classes, streamlining every step:
  - Unified product configuration simplifies ordering, logistics, and inventory
  - Optimized system design, selection, and installation
- Record-breaking up to 99% weighted efficiency with up to 200% DC oversizing
- Integrates seamlessly with the complete SolarEdge Home ecosystem, through the SolarEdge Home Network
- Small, lightweight, and easy to install
- Advanced safety features with integrated arc fault protection
- 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

* Backup applications are subject to local regulations and require a connection to the SolarEdge Home Batteries and the SolarEdge Home Backup Interface.

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Applicable to inverters with part number		SE10000H-RWSKBF57[1]								
		SE2200H[2]	SE3000H	SE3680H	SE4000H	SE5000H	SE6000H	SE8000H	SE10000H	Units
OUTPUT – AC ON GRID										
Rated AC Power		2200	3000	3680	4000	5000[3]	6000	8000	10,000	VA
Maximum AC Power Output		2200	3000	3680	4000	5000[3]	6000	8000	10,000	VA
AC Output Voltage (Nominal)		220 – 230 / 240								Vac
AC Output Voltage (Range)		184 – 264.5								Vac
AC Frequency Range (Nominal)		50 / 60 ± 5								Hz
Maximum Continuous Output Current RMS		10	14	16	18.5	23	27.5	36.5	45.5	A
Fault Current Protection (100ms)		40						70		A
Total Harmonic Distortion (THD)		< 3								%
Power Factor		1, adjustable -0.9 to 0.9						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										
@50Hz	Maximum AC Power in Backup Operation	10,000[4]								W
	AC Frequency	50 ± 5								Hz
	Maximum Continuous Output Current in Backup Operation	45.5								A
	Fault Current Protection (100ms)	70								A
	AC Output Voltage (Nominal)	220 – 230								Vac
@60Hz	Maximum AC Power in Backup Operation	12,500[5]								W
	AC Frequency	60 ± 5								Hz
	Maximum Continuous Output Current in Backup Operation	52								A
	Fault Current Protection (100ms)	74								A
	AC Output Voltage (Nominal)	240								Vac
AC Output Voltage (Range)		184 – 264.5								Vac
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		4400	6000	7360	8000	10,000	12,000	16,000	20,000	W
Maximum Input Current		6.5	9.0	10.5	11.5	13.5	16.5	20.5	25.5	Adc
Isc PV		6.5	9.0	10.5	11.5	13.5	16.5	20.5	25.5	Adc
Maximum Inverter Efficiency		99.2								%
European Weighted Efficiency		98.3	98.8			99				%
Reverse-Polarity Protection		Yes								

(1) Adjustable to all lower models using SolarEdge Go.
(2) Only available in Poland, France, and Hungary. For details about the inverters approved for installation in your country, see here.
(3) 4600 VA AC / 7130 VA DC in Germany.
(4) The default AC power in backup operation for each model is equal to its rated AC power in on-grid mode. The AC power in backup operation is selectable within the range 2,500W to 10,000W for all models. Please ensure that the protective device and CSA of the cables are correct for the selected power in backup mode.

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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								
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)						Integrated, user configurable (according to UL 1699B:2011)		
STANDARD COMPLIANCE									
Safety	IEC 62109; IS 16221-2								
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; G100; IS 16169; IEC 61683; IEC 62116; IEC 61727								
Electromagnetic Compatibility (EMC)	IEC 61000-6-2; IEC 61000-6-3; EN/IEC 61000-3-2; EN/IEC 61000-3-3; IEC 61000-3-11; IEC 61000-3-12; EN 55011								
INSTALLATION SPECIFICATIONS									
Warranty	12(standard) / 25(optional) years, with an 8-year warranty applicable to systems installed in India[6]								
AC Output – Supported Cable Diameter	9 – 16								mm
AC – Supported Wire Cross Section	1 – 16								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	< 25								dBA
Operating Temperature Range	-40 to +60								°C
Protection Rating	IP65 – outdoor and indoor								

(5) Operational only at ambient temperatures up to 30°C. Above 30°C, the Maximum Rated AC Power in Backup Operation is 11,400W.
(6) For specific warranty details of the SolarEdge Home Hub Single Phase Inverter in India, refer to the SolarEdge Limited Product Warranty (India).

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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