

SolarEdge Home Hub Inverter

Single Phase, for South Africa

SE5000H / SE6000H / 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, for higher energy yield
- ! Integrates seamlessly with the complete SolarEdge Home ecosystem, through SolarEdge Home Network
- ! Small, lightweight, and easy to install
- ! Advanced safety features including SafeDC™, rapid shutdown, and 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 including:
 - ! Full home backup power
 - ! High efficiency DC-coupled storage
 - ! EV charging with SolarEdge Home EV Charger
- ! IP65-rated, for indoor and outdoor installations

*Requires additional hardware and firmware version upgrade

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Applicable to inverters with part number	SEXXXXH-ZASNBBX14			UNITS
	SE5000H	SE6000H	SE10000H	
OUTPUT – AC ON GRID				
Rated AC Power	5000	6000	10000	VA
Maximum AC Power Output	5000	6000	10000	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	23	27.5	45.5	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⁽¹⁾				
Rated AC Power in Backup Operation	4600	6000	10000	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	21	27.5	45.5	A
INPUT – DC (PV AND BATTERY)				
Transformer-less, Ungrounded	Yes			
Max Input Voltage	480			Vdc
Nom DC Input Voltage	380			Vdc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	600k Ω Sensitivity			
Maximum DC PV Power	10000	12000	20000	W
Maximum Input Current	14	16.5	26.5	Adc
Maximum Inverter Efficiency	99.2			%
European Weighted Efficiency	99			%
2-pole Disconnection	Yes			
BATTERY STORAGE				
Supported Battery Types	SolarEdge Home Battery 400V			
Number of Batteries per Inverter	Up to 3			
Continuous Discharge Power	5000W per battery ⁽²⁾			
SMART ENERGY CAPABILITIES				
Consumption Metering	Built-in ⁽³⁾			
EV Charging	Smart EV ready – separate EV charger and cabling required			

(1) Not designed for standalone applications and requires AC for commissioning.

(2) The total Continuous Discharge Power is limited to the inverter rated AC power for on-grid and backup applications.

(3) For consumption metering current transformers should be ordered separately: SE-CTML-0350-070 or SE-ACT-0750-100 or SE-ACT-0750-250.

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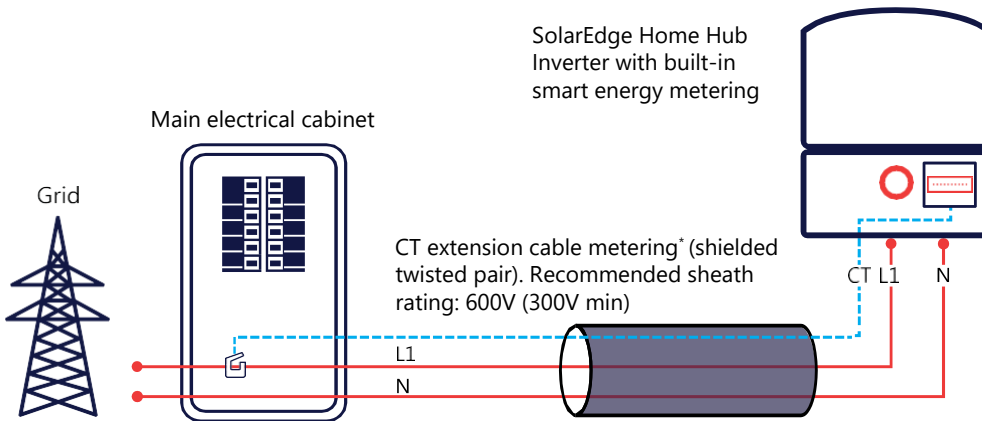
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ADDITIONAL FEATURES				
Supported Communication Interfaces	RS485, Ethernet, Wi-Fi, SolarEdge Home Network			
Integrated AC, DC, and Communication Connection Unit	Built-in			
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection			
STANDARD COMPLIANCE				
Safety	IEC-62103 (EN50178), IEC-62109, AS/NZS3100			
Grid Connection Standards	AS/NSZ 4777.2:2020, EN 50549-1, NRS 097-2-1			
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12			
INSTALLATION SPECIFICATIONS				
AC Output and DC Input Conduit Size / Wire Cross Section	32 mm Maximum / 1 – 16 mm ²			
Dimensions with Connection Unit (H x W x D)	459 x 370 x 154	535 x 370 x 185		mm
Weight with Connection Unit	<15			kg
Communication Glands	2			
Noise	<25	<50		dBA
Cooling	Natural convection			
Operating Temperature Range	-40 to +60 ⁽⁴⁾			°C
Protection Rating	IP65 – Outdoor and Indoor			

(4) Full power up to at least 50°C; for power de-rating information refer to the [Temperature De-rating Technical Note](#).

Connecting CTs to the Revenue Grade and Consumption Meter



* One CT for import/export or consumption metering

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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