

StorEdge® Single Phase Inverter with HD-Wave Technology

SE2200H / SE3000H / SE3500H / SE3680H / SE4000H /
SE5000H / SE6000H



Optimized for on-grid applications

- / A single unit that manages PV, household consumption, and battery power
- / Simple installation and inventory management
- / Industry leading efficiency with 200% DC oversizing
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp.
- / Seamless wireless connectivity with system devices such as the SolarEdge Home Battery, via optional SolarEdge Home Network
- / Built-in module-level monitoring
- / Designed to eliminate DC voltage and current during installation, maintenance, or firefighting
- / Fixed voltage inverter for longer strings
- / Suitable for outdoor and indoor installation

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Applicable to inverters with part number	SEXXXXH-RWSXXBXX4							Units
	SE2200H	SE3000H	SE3500H	SE3680H	SE4000H	SE5000H	SE6000H	
OUTPUT								
Rated AC Power Output	2200	3000	3500	3680	4000	5000	6000	VA
Maximum AC Power Output	2200	3000	3500	3680	4000	5000	6000	VA
AC Output Voltage (Nominal)	220 / 230							Vac
AC Output Voltage Range	184 – 264.5							Vac
AC Frequency (Nominal)	50/60 ± 5							Hz
Maximum Continuous Output Current	10	14	16	16	18.5	23	27.5	A
Total Harmonic Distortion (THD)	<3							%
Power Factor	1, adjustable -0.9 to 0.9							
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes							
Charge Battery from AC	Yes							
INPUT (PV)								
Maximum DC Power	4400	6000	7000	7360	8000	10,000	12,000	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380							Vdc
Maximum Input Current	6.5	9	10	10.5	11.5	13.5	16.5	Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600							kΩ
Maximum Inverter Efficiency	99.2							%
European Weighted Efficiency	98.3	98.8				99		%
INPUT (BATTERY)								
Compatible Batteries	SolarEdge Home Battery 400V for Europe							
Number of Batteries per Inverter	Up to 3							
Continuous Power ⁽²⁾	5000 W per battery							
Maximum Input Voltage	480							Vdc
Maximum Continuous Current	14							Adc
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, Ethernet, Wi-Fi ⁽³⁾ , wireless SolarEdge Home Network (optional) ⁽⁴⁾ , Cellular (optional), ZigBee for Smart Energy (optional) ⁽⁵⁾							
Smart Energy Management ⁽⁶⁾	Export Limitation, Smart Energy							
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 UL1699B)							

(1) Supporting inverter firmware is required for increased capacity.

(2) The total continuous discharge power is limited up to the inverter's rated AC power for on-grid applications.

(3) Wi-Fi connectivity requires an external antenna. For more information, refer to the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.

(4) For more information, refer to the [SolarEdge Home Network](#) datasheet.

(5) For more information, refer to the [Zigbee Plug-in for Inverters with SetApp Configuration](#) datasheet.

(6) An import and export meter is required for export limitation and most home energy management functions.

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STANDARD COMPLIANCE								
Safety	IEC 62109-1/2, AS-3100							
Grid Connection Standards	IEC 61727, IEC 62116, EN 50438, VDE-AR-N-4105, VDE 0126-1-1, UTE_C_15-712, G83/2,G59/3, CEI-021, ONORM, TF3.2.1, C10-11, NRS 097-2-1							
Electromagnetic Compatibility (EMC)	EN/IEC 61000-6-1, EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4, EN 55011, FCC Part 15, EN/IEC 61000-3-2, EN/IEC 61000-3-3, EN/IEC 61000-3-11, EN/IEC 61000-3-12							
INSTALLATION SPECIFICATIONS								
AC Output – Supported Cable Diameter	9 – 16							mm
AC – Supported Wire Cross Section	1 – 10							mm ²
DC Input (PV)	1 x MC4							
Battery Input	1 x MC4							
Dimensions (H x W x D) with StorEdge Interface	450 x 370 x 174							mm
Noise	< 25							dBA
Weight	10				kg		11.9	
Cooling	Natural convection							
Operating Temperature Range	-40 to +60 ⁽⁷⁾							°C
Protection Rating	IP65 – outdoor and indoor							

(7) Full power up to at least 50°C. For power derating information refer to the [Temperature Derating](#) 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.

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