

SolarEdge AC Coupled Single Phase Inverter, for Europe

SE3680H / SE5000H



Upgrade any existing PV system to storage

- / Specially designed to work side-by-side with SolarEdge Single and Three Phase inverters, as well as with non-SolarEdge inverters
- / Compatible with the SolarEdge Home Battery 400V
- / Small, lightweight, and easy to install
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / Integrates seamlessly with the complete SolarEdge Home ecosystem, through the SolarEdge Home Network
- / IP65 – outdoor and indoor installation
- / Advanced safety features such as SafeDC™ during installation and maintenance
- / Does not work with power optimizers or as a standard solar PV inverter
- / Enables monitoring and full visibility of battery status, PV production, and self-consumption data

/ SolarEdge AC Coupled

Single Phase Inverter, for Europe

SE3680H / SE5000H

Applicable to inverter with part number	SEXXXH-RWSACBXXX		UNITS
	SE3680H	SE5000H	
OUTPUT			
Rated AC Power Output ⁽¹⁾	3680	5000 ⁽²⁾	VA
Maximum AC Power Output ⁽¹⁾	3680	5000 ⁽²⁾	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	16	23	A
Residual Current Detector / Residual Current Step Detector	300 / 30		mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes		
INPUT			
Supported Battery Models	SolarEdge Home Battery 400V		
Number of Batteries per Inverter	Up to 3 ⁽³⁾		
Continuous Power	5000W per battery, total continuous discharge power limited up to the inverter’s rated AC power		W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage	480		Vdc
Nominal DC Input Voltage	380		Vdc
Maximum Input Current	10.5	13.5	Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600kΩ Sensitivity		
Maximum Inverter Efficiency	99.2		%
European Weighted Efficiency	98.8	99	%
ADDITIONAL FEATURES			
Supported Communication Interfaces ⁽⁴⁾	RS485; Ethernet; Cellular (optional); SolarEdge Home Network (optional) ⁽⁵⁾		
Inverter Commissioning	With the SetApp mobile application using built in Wi-Fi access point for local connection		
STANDARD COMPLIANCE			
Safety	IEC 62109-1/2		
Grid Connection Standards	IEC 61727; IEC 62116; EN 50438; VDE-AR-N-4105; VDE 0126-1-1; UTE_C_15-712; G98; G99; CEI-021; ÖNORM; 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		
RoHS	Yes		
INSTALLATION SPECIFICATIONS			
AC Output to Other Inverters	9 – 16		mm
DC Input	1 x MC4 pair	2 x MC4 pairs	
Dimensions (H x W x D)	280 x 370 x 142		mm
Weight	7.8	9	kg
Cooling	Natural Convection		
Noise	<25		dBA
Operating Temperature Range	-40 to +60 ⁽⁶⁾		
Protection Rating	°C		
Mounting	IP65 – outdoor and indoor		

(1) The AC Power Output is the minimum between the AC Power Output and the battery's continuous peak power.

(2) 4600VA in Germany.

(3) Installations with multiple SolarEdge Home Batteries connected to a single inverter require a pair of SolarEdge branch connectors (DC + and DC -) per battery, excluding the last battery. The branch connectors should be purchased separately. For details, see the [Connecting the Home Hub Inverter to Multiple Home Batteries](#) technical note

(4) Additional Wi-Fi or ZigBee connectivity is possible. For details, see the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.

(5) For details, see the [SolarEdge Home Network Plug-In](#) datasheet and [SolarEdge Home Network Plug-in Kit Selection](#) technical note.

(6) Derating from 50°C .For power derating information, see the [SolarEdge Products Temperature Derating](#) technical note.