

# SolarEdge Home Hub Inverter

## Single Phase, for Europe

SE3000H / SE3680H / SE4000H / SE5000H / SE6000H



# 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 99% weighted efficiency with up to 200% DC oversizing
- ! 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

SE3000H / SE3680H / SE4000H / SE5000H / SE6000H

	SE3000H	SE3680H	SE4000H	SE5000H	SE6000H	Units
<b>OUTPUT – AC ON GRID</b>						
Rated AC Power	3000	3680	4000	5000	6000	VA
Maximum AC Power Output	3000	3680	4000	5000	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	14.0	16.0	18.5	23.0	27.5	A
Total Harmonic Distortion (THD)	< 3					%
Power Factor	1, adjustable -0.4 to 0.4					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
Charge Battery from AC (if allowed)	Yes					
<b>OUTPUT – AC BACKUP</b>						
Rated AC Power in Backup Operation	5400					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	25.0					A
<b>INPUT – DC (PV AND BATTERY)</b>						
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	6000	7360	8000	10000	12000	W
Maximum Input Current	9.0	10.5	11.5	13.5	16.5	Adc
Isc PV	9.0	10.5	11.5	13.5	16.5	Adc
Maximum Inverter Efficiency	99.2					%
European Weighted Efficiency	98.8			99		%
Reverse-Polarity Protection	Yes					
<b>BATTERY STORAGE</b>						
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
<b>SMART ENERGY CAPABILITIES</b>						
Backup and Battery Storage	With Backup Interface (purchased separately) for service up to 100A; up to 3 inverters					
<b>ADDITIONAL FEATURES</b>						
Supported Communication Interfaces	RS485, Ethernet, Wi-Fi (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					
<b>STANDARD COMPLIANCE<sup>(1)</sup></b>						
Safety	IEC-62109					
Grid Connection Standards	VDE-AR-N 4105, Tor Erzeuger Typ A, EN50549-1, CEI 0-21, G98/99 Type A, G98/99 NI Type A, RD1699 / RD413 / NTS, VDE-V 0126-1-1, VFR 2019, C10/11					
Electromagnetic Compatibility (EMC)	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, EN55011					
<b>INSTALLATION SPECIFICATIONS</b>						
AC Output – Supported Cable Diameter	9 – 16					mm
AC – Supported Wire Cross Section	1 – 13					mm <sup>2</sup>
Dimensions with Connection Unit (H x W x D)	450 x 370 x 174					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) For details about the inverters approved for installation in your country, see [here](#).