

# SolarEdge Home Hub Inverter

## Three Phase, for Europe

SE5K-RWB48 / SE8K-RWB48 / SE10K-RWB48



### Three 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
- ! More energy using DC coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- ! Quick and easy inverter installation and commissioning directly from a smartphone using the SolarEdge SetApp
- ! Designed to eliminate high voltage during installation, maintenance or firefighting for enhanced safety
- ! Enables module-level monitoring and full visibility of battery status, PV production, and self-consumption data

\* Requires additional hardware and firmware version upgrade

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	SE5K-RWB48	SE8K-RWB48	SE10K-RWB48	UNITS
<b>OUTPUT – AC ON GRID</b>				
Rated AC Power Output (Total/Per Phase)	5000/1667	8000/2667	10000/3333	VA
Maximum AC Power Output (Total/Per Phase)	5000/1667	8000/2667	10000/3333	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380/220; 400/230			Vac
AC Output Voltage – Line to Neutral (Range)	184 – 264.5			Vac
AC Frequency	50/60 ± 5			Hz
Maximum Continuous Output Current (per phase)	8	13	16	A
Fault Current Protection per Phase (120ms)	11	17.5	22	A
Residual Current Detector / Residual Current Step Detector	300/30			mA
Grids Supported	3 / N / PE Three Phase (WYE with Neutral)			
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
<b>OUTPUT – AC BACKUP</b>				
Maximum AC Power Output (Total/Per Phase)	5000/1667	8000/2667	10000/3333	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380/220; 400/230			Vac
AC Output Voltage – Line to Neutral Range	184 – 264.5			Vac
AC Frequency	50/60 ± 5			Hz
Maximum Continuous Output Current (per phase)	8	13	16	A
Fault Current Protection per Phase (120ms)	11	17.5	22	A
Residual Current Detector / Residual Current Step Detector	300/30			mA
Grids Supported	3 / N / PE Three Phase (WYE with Neutral)			
Transformer-less, Ungrounded	Yes			
Utility Monitoring, Ensure Safe Disconnection from Utility Grid in Backup Operation, Configurable Power Factor, Country Configurable Thresholds	Yes			
Automatic Switchover Time	< 3			Sec
Max Allowed Imbalanced Between Phases	1.66	2.66	3.33	Kw
<b>INPUT PV</b>				
Maximum DC Power (Module STC)	10000	16000	20000	W
Input Voltage Range	750 – 900			Vdc
Maximum Input Current	13.3	21.3	26.6	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	700kΩ Sensitivity			
<b>INPUT/OUTPUT BATTERY</b>				
Supported Battery Types	SolarEdge Home Battery BAT-05K48 (1 – 5 battery modules)			
Maximum Charge/Discharge Power	5000			W
Input Voltage Range	40 – 62			Vdc
Maximum Continuous Input/Output Current	125			Adc
Battery to Inverter Communication	CAN			
<b>EFFICIENCY</b>				
PV to Grid	98			%
PV to Battery DC	98.4			%
Battery DC to Grid	96.1			%
European Weighted Efficiency	97.3	97.6		%
<b>ADDITIONAL FEATURES</b>				
Supported Communication Interfaces	Built-in: 2 x RS485, Ethernet, SolarEdge Home Network			

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<b>STANDARD COMPLIANCE</b>				
Safety	IEC62109			
Grid Connection Standards <sup>(1)</sup>	VDE-AR-N 4105, Tor Erzeuger Typ A, EN 50549-1, CEI 0-21, G98 Type A, G98 NI Type A, RD1699 / RD413 / NTS, VDE-V 0126-1-1, VFR 2019, C10/11, EN 50438, VDE 2510-2			
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, EN55011			
RoHS	Yes			
<b>INSTALLATION SPECIFICATIONS</b>				
AC Output – Cable Gland Diameter	15 – 21			mm
AC Output – Cable Cross Section	2.5 – 16			mm <sup>2</sup>
Battery DC – Cable Gland Outer Diameter	2 x 11 – 16.5			mm
Battery DC – Cable Cross Section	35			mm <sup>2</sup>
PV DC Input	2 x MC4 pair			
Dimensions (H x W x D)	907 x 317 x 192			mm
Weight	37			kg
Operating Temperature Range	-40 to +60			°C
Cooling	Fans			
Noise	< 50			dBA
Protection Rating	IP65 – outdoor and indoor			
Mounting	Brackets provided			
External RCD	Unless a different value is required by the local electric code, SolarEdge recommends a type-A RCD with a value of 100mA, and a minimum Residual Non-Tripping Current (I $\Delta$ no) value of 70mA.			

(1) For all standards, see the Certifications category in the [Knowledge Center](#).

### SOLAREGE HOME HUB INVERTER – ACCESSORIES (PURCHASED SEPARATELY)

#### OPTIONAL COMMUNICATION INTERFACES

Wi-Fi

Cellular

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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