

SolarEdge Home Hub Inverter

Three Phase, for Europe

SE5K-RWB48 / SE8K-RWB48 / SE10K-RWB48

INVERTERS



Three phase inverter for storage and backup applications

- / Simple installation with single inverter for managing both PV production, battery storage, and operation during power outage for full house backup applications⁽¹⁾
- / More energy using DC coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- / Quick and easy inverter 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
- / Allows connection of batteries from SolarEdge and other vendors⁽²⁾ to provide greater flexibility

⁽¹⁾ Requires additional hardware and firmware version upgrade

⁽²⁾ Pending firmware support

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	SE5K-RWB48	SE8K-RWB48	SE10K-RWB48	UNITS
OUTPUT – AC ON GRID				
Rated AC Power Output	5000	8000	10000	VA
Maximum AC Power Output	5000	8000	10000	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
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			
OUTPUT – AC BACKUP				
Maximum AC Power Output	4500	7200	9000	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)	7.2	11.7	14.4	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	< 10			Sec
Max Allowed Imbalanced Between Phases	1.66	2.66	3	Kw
INPUT PV				
Maximum DC Power (Module STC)	10000	13000	15000	W
Maximum Input Voltage	900			Vdc
Nominal DC Input Voltage	750			Vdc
Maximum Input Current	13.3	17.3	20	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	700kΩ Sensitivity			
Peak Inverter Efficiency	98			%
European Weighted Efficiency	97.3	97.6		%
INPUT/OUTPUT BATTERY				
Supported Battery Types ⁽¹⁾	SolarEdge Home Battery BAT-05K48 (1-5 battery modules)			
	Pending firmware support: LG Chem RESU3.3, RESU6.5, RESU10, RESU12, RESU13			
	Pending firmware support: BYD Battery-Box Premium LVS 4.0, 8.0, 12.0, 16.0, 20.0, 24.0			
Maximum Charge/Discharge Power	5000			
Input Voltage Range	40 – 62			
Maximum Continuous Input/Output Current	125			
Peak Battery to Grid Discharge Efficiency	96.1			
Battery to Inverter Communication	CAN			
ADDITIONAL FEATURES				
Supported Communication Interfaces	Built in: 2 x RS485, Ethernet, SolarEdge Home Network			

(1) Each battery may have different number of modules connected in parallel for excess storage capacity, pending vendor's support and inverter firmware. For the current list of modules support, please refer to the firmware release note.

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STANDARD COMPLIANCE				
Safety	IEC62109			
Grid Connection Standards ⁽²⁾	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			
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, EN55011			
RoHS	Yes			
INSTALLATION SPECIFICATIONS				
AC Output – Cable Gland Diameter	15 – 21			mm
Battery DC – Cable Gland Outer Diameter	2 x 11 – 16.5			mm
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	Internal and external fans			
Noise	< 50			dBA
Protection Rating	IP65 – outdoor and indoor			
Mounting	Brackets provided			

(2) For all standards, see the Certifications category in the Downloads page: <http://www.solaredge.com/groups/support/downloads>

SOLAREGE HOME HUB INVERTER – ACCESSORIES (PURCHASED SEPARATELY)

OPTIONAL COMMUNICATION INTERFACES

Wi-Fi (requires Wireless Gateway)

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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