

SolarEdge Home Short String Inverter

SE3K-RWB / SE4K-RWB / SE5K-RWB



INVERTER

The ideal solution for small-scale residential PV systems

- Greater design flexibility by enabling significantly shorter strings for low power three phase PV systems
- Optimized for installations with complex roofs (multi-facets and different orientations)
- Ready for use with energy storage – one inverter for both PV system and battery energy storage*
- Supports optional smart energy devices and expansion of system capabilities
- Single vendor solution for seamless operation of all system components, and one address for warranty and service issues
- Built-in module-level monitoring for greater visibility into system performance
- Excellent reliability with standard 12-year warranty (extendable to 20 or 25 years)
- Advanced safety features, including touch-safe DC voltage when the inverter is off or disconnected
- Quick inverter commissioning directly from the SolarEdge Go smartphone app
- Suitable for outdoor or indoor installations

* Only for Belgium, Cyprus, Hungary, the Netherlands, Poland, Slovakia, and Spain.

/ SolarEdge Home Short String Inverter

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Applicable to inverters with part number	SE3K-RWBTEBEN4	SE4K-RWBTEBEN4	SE5K-RWBTEBEN4	Units
OUTPUT				
Rated AC Power Output	3000	4000	5000	VA
Maximum AC Power Output	3000	4000	5000	VA
AC Output Line Connections	3-phase, 4-wire / PE (L1-L2-L3-N), TN, TT			
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380/220; 400/230			Vac
AC Output Voltage – Line to Neutral Range	187 – 264.5			Vac
AC Frequency	50/60 ± 5 %			Hz
Maximum Continuous Output Current (per phase)	5	6.5	8	A
Grid Supported – Three Phase	3 / N / PE (WYE with Neutral)			
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
INPUT – DC (PV AND BATTERY)				
Maximum DC Power (Module STC)	4050	5400	6750	W
Transformer-less, Ungrounded	Yes			
Input Voltage Range	375 – 450			Vdc
Maximum Voltage to Earth	450			Vdc
Maximum Input Current	8.5	11.5	14	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	350 kΩ sensitivity			
Maximum Inverter Efficiency	97.8			%
European Weighted Efficiency	94.6	95.7	96.3	%
Night-time Power Consumption	<4			W
BATTERY STORAGE⁽¹⁾				
Supported Battery Types	SolarEdge Home Battery 400V, using SolarEdge Home Network only			
Number of Batteries per Inverter	1			
Continuous Power (Charge / Discharge)	Up to 5kW or maximum inverter nameplate			
ADDITIONAL FEATURES				
Supported Communication Interfaces ⁽²⁾	2 x RS485, Ethernet, Wi-Fi ⁽³⁾ , SolarEdge Home Network (optional plugin)			
Inverter Commissioning	With the SolarEdge Go mobile application using built-in Wi-Fi station for local connection			
Smart Energy Management	Export Limitation, Home Energy Management (Device Control)			
STANDARD COMPLIANCE				
Safety	IEC 62109-1/2			
Grid Connection Standards	EN 50549-1			
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	Cable gland diameter 15 – 21			mm
DC Input	2 x MC4 pair			
Dimensions (H x W x D)	540 x 315 x 260			mm
Weight	24.5			kg
Operating Temperature Range	-40 to +60 ⁽⁴⁾			°C
Cooling	Fan (user replaceable)			
Noise	< 50			dBA
Protection Rating	IP65 – outdoor and indoor			
Mounting	Brackets provided			
Number of Power Optimizers per String	8 ⁽⁵⁾ /9 to 20			
Maximum Power per String	5625			W

(1) Available only in Belgium, Cyprus, Hungary, the Netherlands, Poland, Slovakia, and Spain, from firmware version 4.21.1xx and up. Up to three AC-coupled Short String Inverters, each with a single battery, allowed per site.

(2) For optional communication options, see the [SolarEdge Home Network Plug-in Kit Selection](#) technical note.

(3) Wi-Fi connectivity requires an [external antenna](#).

(4) For power derating information refer to the [Temperature Derating](#) technical note.

(5) When using S500B/S650B/P404/P485/P505 power optimizers only, a minimum of eight power optimizers are required per string.