

SolarEdge Home

Short String Inverter, for India

SE5K-INB



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)
- 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 SetApp smartphone app
- Suitable for outdoor or indoor installations

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Applicable to inverters with part number	SE5K-INBTEBEN4	Unit
OUTPUT		
Rated AC Power Output	5000	VA
Maximum AC Power Output	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)	400/230	Vac
AC Output Voltage – Line to Line / Line to Neutral Range	320-478/180-264.5	Vac
AC Frequency Range	50/60 ± 5	Hz
Maximum Continuous Output Current (per Phase)	8	A
Grids Supported	3 / N / PE (WYE with Neutral)	
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes	
INPUT		
Maximum DC Power (Module STC)	6750	W
Transformer-less, Ungrounded	Yes	
Maximum Input Voltage	450	Vdc
Nominal DC Input Voltage	375	Vdc
Maximum Input Current	14	
Ground-Fault Isolation Detection	350 kΩ sensitivity	
Maximum Inverter efficiency	97.8	%
European Weighted Efficiency	96.3	%
Reverse-Polarity Protection	Yes	
Typical Nighttime Power Consumption	< 4	W
ADDITIONAL FEATURES		
Supported Communication Interfaces	2 x RS485, Ethernet, Wi-Fi, Wireless SolarEdge Home Network (optional)	
Inverter Commissioning	With the SetApp 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, IEC-62103 (EN50178)	
Grid Connection Standards	IEC 61727 & IEC 62116	
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	
Environmental	IEC-60068-2-1, IEC-60068-2-2, IEC-60068-2-14, IEC-60068-2-30, IEC-60529	
RoHS	Yes	
INSTALLATION SPECIFICATIONS		
AC Output	Cable gland diameter 15 – 21	mm
DC Input	2 x MC4 pairs	
Dimensions (H x W x D)	540 x 315 x 260	mm
Weight	25	kg
Cooling	Fan (user replaceable)	
Noise	< 50	dBA
Operating Temperature Range	-40 – +60	°C
Protection Rating	IP65 - outdoor and indoor	
Mounting	Brackets provided	
Number of Power Optimizers per String	8 ⁽¹⁾ /9 to 20	
Maximum Power per String	5625	

(1) When using P404/P485/P505/P601 power optimizers only, a minimum of eight power optimizers are required per string.