



SolarEdge 6kW String Inverter



The best choice for SolarEdge enabled systems

- Superior efficiency (>97%)
- Small, lightweight and easy to install
- Built-in module-level monitoring receiver
- Communication to internet via broadband
- IP65 – Outdoor and indoor installation
- Excellent reliability with standard 12 year warranty



architects of energy™



6kW String Inverter

SE6000

All our inverters are part of SolarEdge's innovative system designed to provide superior performance at a competitive price.

The SolarEdge inverter combines a sophisticated, cutting-edge digital control technology and a one stage, ultra-efficient power conversion architecture to achieve superior performance – over 97% efficiency and best-in-class reliability. Our fixed-voltage technology ensures the inverter is always working at its optimal input voltage, regardless of the number of modules or environmental conditions.

A proprietary data monitoring receiver is integrated in the inverter and aggregates SolarEdge PowerBox performance data from each PV module. This data can be transmitted to the web and accessed via the SolarEdge Monitoring Portal for performance analysis, fault detection and troubleshooting.

This inverter can be fitted with a seamlessly attachable cabling duct for managing the installation wirings and it is light enough for a single person to install on a supplied bracket.

TECHNICAL DATA

OUTPUT		
Rated AC Power Output	6000	W
Maximum AC Power Output	6000	W
AC Output Voltage (Nominal)	230	Vac
AC Output Voltage Range	184 - 264.5	Vac
AC Frequency (Nominal)	50	Hz
AC Frequency Range	47.5 - 50.2	Hz
Maximum Continuous Output Current	30	A
Total Harmonic Distortion (THD) at Maximum Power	< 3	%
Power Factor	>0.99	
Residual Current Detector / Residual Current Step Detector	300 / 30	mA
Maximum DC Injection	130	mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes	
INPUT		
Recommended Maximum DC Power (Module STC)	6200	W
Transformer-less, Ungrounded	Yes	
Maximum Input Voltage	500	Vdc
MPPT Voltage Range	Not Applicable in SolarEdge System	
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	600kΩ Sensitivity	
Maximum Inverter Efficiency	97.6	%
European Weighted Efficiency	97.1	%
CEC Weighted Efficiency	97.2	%
Nighttime Power Consumption	< 2.5	W
STANDARD COMPLIANCE		
Safety	IEC-62103 (EN50178), Draft IEC-62109, UL1741	
Grid Connection Standards	VDE 0126-1-1, AS-4777, RD-1663 , DK 5940, IEEEE1547	
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B	
WEEE, RoHS	Yes	
INSTALLATION SPECIFICATIONS		
AC Output	Cable Gland - diameter 13-18 mm	
DC Input	MC3 / MC4 / Tyco	
Dimensions (WxLxH)	540x315x191	mm
Weight	23	kg
Cooling	Natural Convection	
Operating Temperature Range	-20 - +50	°C
Protection Rating	IP65 - Outdoor and Indoor	
Bracket Mounted (Bracket Provided), Optional Attachable Cabling Duct		

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