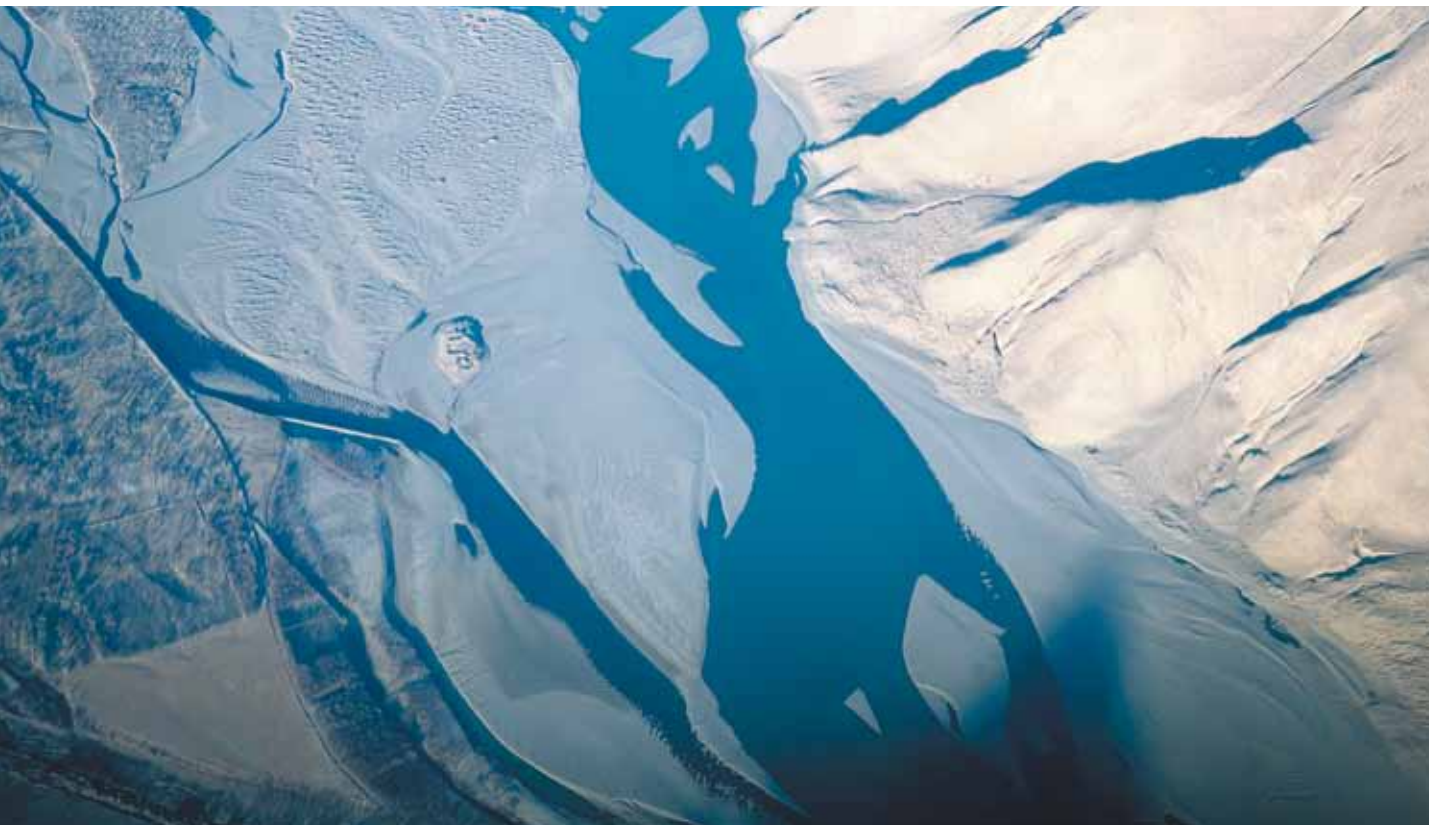




SolarEdge Single Phase Inverters



The best choice for SolarEdge enabled systems

- Superior efficiency (97.6%)
- Small, lightweight and easy to install
- Built-in module-level monitoring
- Communication to internet via Ethernet or Wireless
- IP65 – Outdoor and indoor installation



architects of energy™

Single Phase Inverters

SE3000/SE3500/SE4000/SE5000/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, 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. Multiple inverters can be connected in an RS485 bus or using a wireless Zigbee MESH network. The data from the inverters is transmitted to the web using an Ethernet connection or a wireless link and can be accessed via the SolarEdge Monitoring Portal for performance analysis, fault detection and troubleshooting.

The inverter is light enough for a single person to install on a supplied bracket.

TECHNICAL DATA

	SE3000	SE3500	SE4000	SE5000	SE6000	
OUTPUT						
Rated AC Power Output	3000	3500	4000	5000	6000	W
Maximum AC Power Output	3000	3500	4000	5000	6000	W
AC Output Voltage (Nominal)	230					Vac
AC Output Voltage Range	184 - 264.5					Vac
AC Frequency (Nominal)	50 / 60 ± 5					Hz
Maximum Continuous Output Current	16	19	22	27	30	A
Residual Current Detector / Residual Current Step Detector	300 / 30					mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
INPUT						
Recommended Maximum DC Power* (Module STC)	3200	3700	4200	5300	6200	W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	550					Vdc
Nominal DC Input Voltage	350					Vdc
Maximum Input Current	11.5	13.5	16	20	23	Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600kΩ Sensitivity					
Maximum Inverter Efficiency	97.6					%
European Weighted Efficiency	97.2	97.3	97.3	97.2	97.1	%
Nighttime Power Consumption	< 2.5					W
ADDITIONAL FEATURES						
Supported Communication Interfaces	Ethernet, Zigbee (optional)	RS485, Ethernet, Zigbee (optional)				
STANDARD COMPLIANCE						
Safety	IEC-62103 (EN50178), Draft IEC-62109, UL1741					
Grid Connection Standards	VDE 0126-1-1, AS-4777, RD-1663 , DK 5940, IEEE1547, NEC					
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B					
RoHS	Yes					
INSTALLATION SPECIFICATIONS						
AC Output	Cable Gland - diameter 13-18					mm
DC Input	MC4 compatible					
Dimensions (HxWxD)	540 x 315 x 191					mm
Weight	23					kg
Cooling	Natural Convection					
Operating Temperature Range	-20 - +50					°C
Protection Rating	IP65 - Outdoor and Indoor					
Bracket Mounted (Bracket Provided)						

* Higher input DC power may be installed; analyze yearly AC performance.

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