

## THREE PHASES INVERTERS

SolarEdge invented an intelligent inverter solution that revolutionized the way power is harvested and managed in a solar photovoltaic (PV) system. The SolarEdge direct current ("DC") optimized inverter system maximizes power generation at the individual PV module level while lowering the cost of energy produced by the solar PV system.



Inversores SolarEdge monofásicos

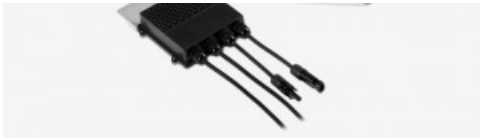


Inversores SolarEdge monofásicos

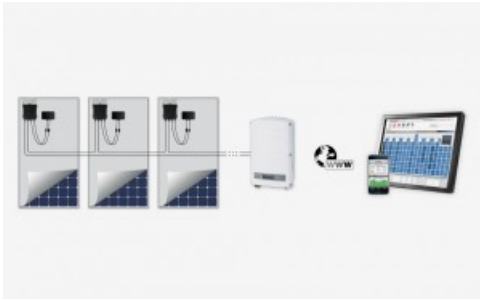


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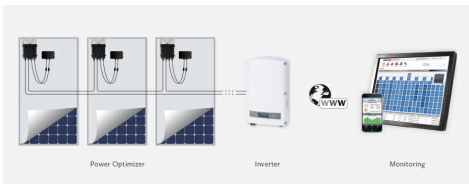
The SolarEdge PV inverter combines sophisticated digital control technology with efficient power conversion architecture to achieve superior solar power harvesting and best-in-class reliability.

The fixed-voltage technology ensures the solar inverter is always working at its optimal input voltage, regardless of the number of modules in a string or environmental conditions.

A proprietary data monitoring receiver has been integrated into the inverter and aggregates the power optimizer 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 of PV systems.

Three Phase Inverter Feature highlights:

- Specifically designed to work with power optimizers
- Superior efficiency (98%)
- Small, lightweight and easy to install
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- IP65 – Outdoor and indoor installation
- Fixed voltage inverter, DC/AC conversion only
- Optional integrated DC Safety Unit - eliminates the need for external DC isolators (SE25K and SE27,6K only)
- Optional DC surge protection and DC fuses (SE25K and SE27.6K only)



## SPECIFICATIONS

SE15K SE16K SE17K SE25K SE27,6K SE33,3K  
(\* )

### OUTPUT

Rated AC	VA	15000	16000	17000	25000	27600	33300
Power Output							

Máximum AC	VA	15000	16000	17000	25000	27600	33300
							2 / 4

Power Output								
AC Output Voltage	Vac	380 / 220 ; 400 / 230						<b>480 / 277</b>
Line to line; Line to Neutral (Nominal)								
AC Output Voltage - Line to Neutral range	Vac	184 - 264,5						<b>244 - 305</b>
AC Frequency (Nominal)	Hz	50 / 60 ± 5						
Max. Continuous Output Current (per phase)	A	23	25,5	26	38	40	40	
Residual Current Detector / Step detector	mA	300 / 30						
Grids Supported - Three Phase	V	3 / N / PE (WYE with Neutral)						
Protections	Utility monitoring, Islanding Protection, Configurable Power Factor Country configurable Thresholds							

#### INPUT

Maximum DC Power (Module STC)	W	20250	21600	22950	33750	37250	45000	
Transformer-less, Ungrounded	Yes							
Maximum input voltage	Vdc	900						1000
Nominal DC input voltage	Vdc	750						840
Maximum Input Current	Adc	22	23	23	37	40	40	
Reverse-polarity protection	Yes							
Ground-Fault isolation detection	7600kΩ Sensitivity							
Maximum inverter efficiency	%	98			98,3		98,1	
European Weighted efficiency	%	97,6	97,7	97,7	98	98	97,8	
Nighttime Power Consumption	W	<2,5				< 4		

#### ADDITIONAL FEATURES

Supported Communication Interfaces (1)	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)
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#### DC Safety Unit (optional)

2-pole Disconnection	N/A	1000 V / 40 A
DC Surge protection	N/A	Type II, field replaceable
DC Fuses on Plus & Minus	N/A	Optional, 20 A
Compliance	N/A	UTE-C15-712-1

### STANDARD COMPLIANCE

Safety	IEC-62103 (EN50178), IEC 62109, ASS3100	
Grid Connection Standards (2)	VDE-AR-N-4105, G59/3, AS-4777, EN 50438, CEI-021, VDE 0126-1-1, CEI-016 (3), VDEW (3)	
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12	
RoHS	Yes	

### INSTALLATION SPECIFICATIONS

AC Output	mm	Cable Gland - diameter 15-21	
DC Input		2 MC4 pair	3 MC4 pairs
DC Input with safety Unit	mm	N/A	Gland outer diameter 5 - 10 Wire cross section 0,5 - 13,5
Dimensions	mm	540 x 315 x 260	540 x 315 x 260
Dimensions with Safety Unit	mm		775 x 315 x 260
Weight	Kgr	33,2	45
Weight with safety Unit	Kgr.	N/A	48
Noise	dBA	< 50	< 55
Operating temperature range	°C	-20 +60 (M40 Version -40 +60)	
Protection Rating		IP65 - Outdoor and Indoor	
Bracked mounted		Provided	

### ( \* ) Requires Medium Voltage Transformer.

(1) Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options:  
<http://www.solaredge.com/groups/support/downloads>

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

(3) Model SE27.6K only