

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.



SolarEdge SE3K - SE27,6K



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Inversores SolarEdge monofásicos



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Inversores SolarEdge monofásicos

The SolarEdge three phase 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 platform for performance analysis, fault detection and troubleshooting of PV systems.

Key Benefits:

- Inverters specifically designed to work with SolarEdge power optimizers
- 4kW-10kW for residential systems, 12.5kW-33.3kW for commercial systems
- Superior efficiency
- Excellent reliability with standard 12-year warranty (extendable to 20 or 25 years)
- Small, lightweight and easy to install
- Quick and easy inverter commissioning directly from your smartphone using the SolarEdge SetApp
- Built-in module-level monitoring receiver
- Internet connection through Ethernet or wireless connectivity (using Wi-Fi, ZigBee®, or cellular plug-ins)
- IP65 – suitable for outdoor and indoor installations

4 - 10 KW SPECIFICATIONS

		SE4K	SE5K	SE6K	SE7K	SE8K	SE9K	SE10K
OUTPUT								
Rated AC Power Output	VA	4000	5000	6000	7000	8000	9000	10000
Máximum AC Power Output	VA	4000	5000	6000	7000	8000	9000	10000
AC Output Voltage Line to line; Line to Neutral (Nominal)	Vac	380 / 220 ; 400 / 230						
AC Ouput Voltage - Line to Neutral range	Vac	184 - 264,5						
AC Frequency (Nominal)	Hz	50 / 60 ± 5						
Max. Continuous Output Current (per phase)	A	6,5	8	10	11,5	13	14,5	16
Grids Supported - Three Phase	V	3 / N / PE (WYE with Neutral)						
Protections	Utility monitoring, Islanding Protection, Configurable Power FactorCountry configurable Thresholds							
INPUT								
Maximum DC Power (Module STC)	W	5400	6750	8100	9450	10800	12150	13500
Transformer-less, Ungrounded		Yes						
Maximum input voltage	Vdc	900						
Nominal DC input voltage	Vdc	750						
Maximum Input Current	Adc	7	8,5	10	12	13,5	15	16,5
Reverse-polarity protection		Yes						
Ground-Fault isolation detection		700kΩ Sensitivity						
Maximum inverter efficiency	%	98						
European Weighted efficiency	%	97,3	97,3	97,3	97,4	97,6	97,5	97,6
Nighttime Power Consumption	W	< 2,5						
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)							
Smart Energy Management	Export Limitation, Home Energy Management							
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point							
STANDARD COMPLIANCE								
Safety	IEC-62103 (EN50178), IEC 62109							
Grid Connection Standards	VDE 0126-1-1, VDE-AR-N-4105, AS-4777, G83 / G59							
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC parte 15, clase B							
INSTALLATION SPECIFICATIONS								
AC Output	mm	Cable Gland - diameter 15-21						
DC Input		2 MC4 pair						
Dimensions	mm	540 x 315 x 191						
Weight	Kgr	16,4						
Noise	dBA	< 40						
Operating temperature range	°C	-40 +60						
Protection Rating		IP65 - Outdoor and Indoor						
Bracked mounted		Provided						

12,5 - 27,6 SPECIFICATIONS

		SE12,5K	SE15K	SE16K	SE17K	SE25K	SE27,6K
OUTPUT							
Rated AC Power Output	VA	12500	15000	16000	17000	25000	27600
Máximo AC Power Output	VA	12500	15000	16000	17000	25000	27600
AC Output Voltage Line to line; Line to Neutral (Nominal)	Vac	380 / 220 ; 400 / 230					
AC Output Voltage - Line to Neutral range	Vac	184 - 264,5					
AC Frequency (Nominal)	Hz	50 / 60 ± 5					
Max. Continuous Output Current (per phase)	A	20	23	25,5	26	38	40
Grids Supported - Three Phase	V	3 / N / PE (WYE with Neutral)					
Protections	Utility monitoring, Islanding Protection, Configurable Power Factor Country configurable Thresholds						
THD	< 3						
INPUT							
Maximum DC Power (Module STC)	W	16850	20250	21600	22950	33750	37250
Transformer-less, Ungrounded	Yes						
Maximum input voltage	Vdc	1000					
Nominal DC input voltage	Vdc	750					
Maximum Input Current	Adc	21	22	23	23	37	40
Reverse-polarity protection	Yes						
Ground-Fault isolation detection	700kΩ Sensitivity			350kΩ Sensitivity			
Maximum inverter efficiency	%	98	98	98	98	98,3	98,3
European Weighted efficiency	%	97,7	97,6	97,7	97,7	98	98
Nighttime Power Consumption	W	<2,5	<2,5	<2,5	<2,5	< 4	< 4
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point						
Smart Energy Management	Export limitation						
Arc Fault protection	Integrated, User Configurable						
Rapid Shutdown	Optional (Automatic upon AC Grid Disconnect)						
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	15-21mm / Solid wire 2.5-16 mm ²				18-25mm / Solid wire 2.5-16 mm ² , Stranded wire 2.5-10 mm ²	
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	N/A			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	-40 +60					
Protection Rating	IP65 - Outdoor and Indoor						
Bracketed mounted	Provided						

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