



SolarEdge Single Phase Inverter for On-grid and Backup for Europe, APAC & South Africa

SE5000-RWS / SE5000-ZAS / SE6000-RWS / SE6000-ZAS



STOREDGE™

Ideal for backup power and on-grid storage

- **Backup Power** - inverter includes the hardware required for automatic backup power for backed-up loads in case of grid interruption
- **On-grid Applications** - maximizes self-consumption, export limit, time of use shifts for reduced electric bills
- **Simple Design and Installation** - single inverter for PV, on-grid storage and backup power
- **Enhanced Safety** - designed to eliminate high voltage and current during installation, maintenance or firefighting
- **Full Visibility** - built-in monitoring of battery status, PV production, remaining backup power, and self-consumption data
- **Easy Maintenance** - remote access to inverter software



SolarEdge Single Phase Inverter for On-grid and Backup for Europe, APAC & South Africa

SE5000-RWS / SE6000-RWS / SE6000-RWS / SE6000-RWS

	SE5000-xxS	SE6000-xxS	
OUTPUT - AC (LOADS/GRID)			
Rated AC Power Output	5000 ⁽¹⁾	6000	VA
Max AC Power Output	5000 ⁽¹⁾	6000	VA
AC Output Voltage (Nominal)	220 / 230		Vac
AC Output Voltage Range	184 - 264.5		Vac
AC Frequency	50 / 60 ± 5		Hz
Maximum Continuous Output Current	27		A
Residual Current Detector / Residual Current Step Detector	300 / 30		mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes		
Charge Battery from AC (if Allowed)	Yes		
THD	<5		%
Power factor with rated power	>0.99 (configurable; 0.9 leading to 0.9 lagging)		
Typical Nighttime Power Consumption	<5		W
OUTPUT - AC (BACKUP POWER)⁽²⁾			
Rated AC Power Output	5000		VA
Max AC Power Output - Surge	7300		VA
AC Output Voltage (Nominal)	220 / 230		Vac
AC Output Voltage Range	184 - 264.5		Vac
AC Frequency	50 / 60 ± 5		Hz
Maximum Continuous Output Current	22		A
AC Breaker	Yes		
THD	<3		%
Power factor with rated power	0.2 leading to 0.2 lagging		
Automatic switchover time	<2		sec
Typical Nighttime Power Consumption	<5		W
INPUT - DC (PV and BATTERY)			
Transformer-less, Ungrounded	Yes		
Max Input Voltage	500		Vdc
Nom DC Input Voltage	400		Vdc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600kΩ Sensitivity		
Maximum Inverter Efficiency	97.6		%
European Weighted Efficiency	97.4		%
INPUT - DC (PV)			
Maximum DC Power (STC)	6750	8100	W
Max Input Current ⁽³⁾	19.5	23	Adc
2-pole Disconnection	Yes		
INPUT - DC (BATTERY)			
Continuous Peak Power	3300		W
Number of Batteries per Inverter ⁽³⁾	1		
Max Input Current	8.5		Adc
2-pole Disconnection	Yes		
DC Fuses on Plus and Minus	12A (field replaceable)		
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485 for battery, RS485, Ethernet, ZigBee (optional), Wi-Fi (optional)		
Battery Power Supply	Yes, 12V / 53W		
Integrated AC, DC and Communication Connection Unit	Yes		
AC Disconnect	Yes		
Manual Inverter Bypass Switch	Yes		
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to VDE 2100-712 (pending)		

⁽¹⁾ Limited to 4600VA when inverter is set to South Africa.

⁽²⁾ Not designed for standalone applications and requires AC for commissioning.

⁽³⁾ For more batteries per inverter contact SolarEdge.



SolarEdge Single Phase Inverter for On-grid and Backup for Europe, APAC & South Africa

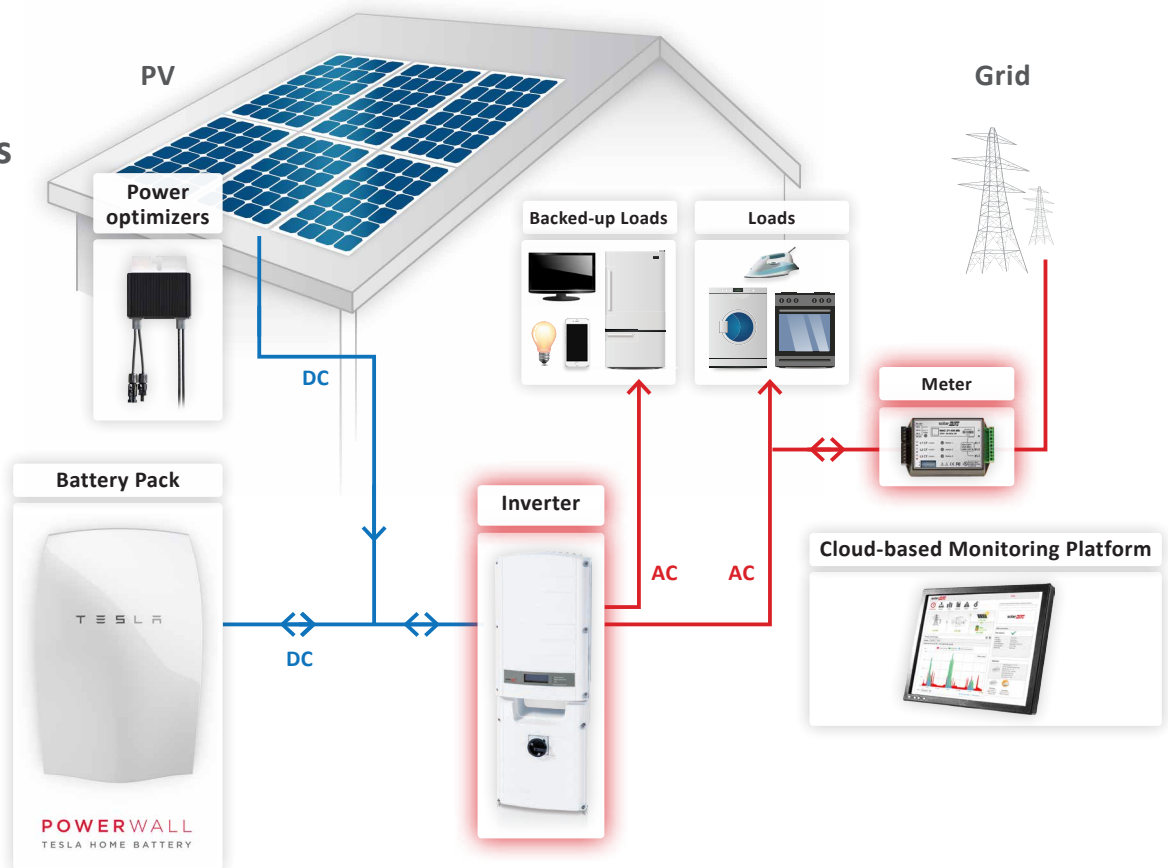
SE5000-RWS / SE6000-RWS / SE6000-RWS / SE6000-RWS

STANDARD COMPLIANCE (PENDING)		
Safety	IEC-62103 (EN50178), IEC-62109	
Grid Connection Standards ⁽³⁾	VDE 0126-1-1, NRS 097-2-1, AS4777	
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12	
INSTALLATION SPECIFICATIONS		
AC Output (Loads/Grid) gland cable diameter / wire cross section	9-16mm / 2-14mm ²	
AC Output (Backup) gland cable diameter / wire cross section	9-16mm / 2-14mm ²	
DC Input (PV)	2 MC4 pairs	
DC Input (Battery)	1 MC4 pair	
Dimensions with Connection Unit (HxWxD)	962 x 315 x 184	mm
Weight with Connection Unit	26.5	kg
Cooling	Natural convection and internal fan (user replaceable)	
Noise	<50	dBA
Min - Max Operating Temperature	-20 to +60 ⁽⁴⁾	
Protection Rating	IP65 - Outdoor and Indoor	

⁽³⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>.

⁽⁴⁾ Power derating from 50°C.

StorEdge™ for On-grid Applications and Backup Power



© SolarEdge Technologies, Inc. All rights reserved. SOLAREEDGE, the SolarEdge logo, OPTIMIZED BY SOLAREEDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: 02/2016. V.01. Subject to change without notice.



www.energreen.be
 Tel: 010 45 13 73
 Fax: 010 45 90 73
 info@energreen.be
 Av. Lavoisier 13
 1300 Wavre

PRODUISONS L'ÉNERGIE RENOUVELABLE DE DEMAIN