



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

SE5000-RWS / SE6000-RWS



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



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	SE5000-RWS	SE6000-RWS	
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.



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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

