

# StorEdge™ Single Phase Inverter

for Europe, APAC & South Africa

SE5000-XXS / SE6000-XXS



STOREDGE™

## Ideal for battery storage and backup power

- Supports StorEdge Solution Applications - reduce electric bills with maximized self-consumption and profile programming
- Provides Backup Power - StorEdge Inverter includes the hardware required for automatically supplying power to backed-up loads in the event of grid outages
- Simple Design and Installation - single inverter for managing PV production, battery storage and backup power
- Enhanced Safety - designed to eliminate high voltage 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-XXS<sup>(1)</sup> / SE6000-XXS<sup>(1)</sup>

	SE5000-XXS	SE6000-XXS	
<b>OUTPUT - AC (LOADS/GRID)</b>			
Rated AC Power Output	5000 <sup>(2)</sup>	6000	VA
Max AC Power Output	5000 <sup>(2)</sup>	6000	VA
AC Output Voltage (Nominal), L-N <sup>(3)</sup>	220 / 230		Vac
AC Output Voltage Range, L-N	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	<3		%
Power factor with rated power	>0.99 (configurable; 0.9 leading to 0.9 lagging)		
Typical Nighttime Power Consumption	<5		W
<b>OUTPUT - AC (BACKUP POWER)<sup>(4)</sup></b>			
Rated AC Power Output	Lower Power Output: 3300; Higher Power Output: 5000 <sup>(5)</sup>		VA
Max AC Power Output - Surge	Lower Power Output: 3300; Higher Power Output: 7300 <sup>(5)</sup>		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	<5		%
Power factor with rated power	0.2 leading to 0.2 lagging		
Automatic switchover time	<2		sec
Typical Nighttime Power Consumption	<5		W
<b>INPUT - DC (PV and BATTERY)</b>			
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		%
<b>INPUT - DC (PV)</b>			
Maximum DC Power (STC)	6750	8100	W
Max Input Current	19.5	23	Adc
2-pole Disconnection	Yes		
<b>INPUT - DC (BATTERY)</b>			
Supported Battery Types	LG Chem RESU7H LG Chem RESU10H		
Number of Batteries per Inverter	1		
Continuous Power	LG Chem RESU7H: 3500, LG Chem RESU10H: 5000		W
Peak Power	LG Chem RESU7H: 5000, LG Chem RESU10H: 7000		W
Max Input Current	8.5	17.5	Adc
2-pole Disconnection	Yes		
DC Fuses on Plus and Minus	12A (field replaceable)	25A (field replaceable)	

(1) xx=RW for Europe and APAC, ZA for South Africa; available in some countries; refer to SolarEdge Supported Countries document:

[http://www.solaredge.com/sites/default/files/se\\_inverters\\_supported\\_countries.pdf](http://www.solaredge.com/sites/default/files/se_inverters_supported_countries.pdf)

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

(3) The StorEdge Inverter must be connected Line to Neutral (and not Line to Line)

(4) Not designed for stand-alone applications and requires AC for commissioning

(5) Higher power output values apply to inverters with PN: SEXXXX-XXS2XXXXX

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#### 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)	

#### STANDARD COMPLIANCE (PENDING)

Safety	IEC-62103 (EN50178), IEC-62109	
Grid Connection Standards <sup>(6)</sup>	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) conduit size / wire cross section	9-16mm / 2-14mm <sup>2</sup>	
AC Output (Backup) conduit size / wire cross section	9-16mm / 2-14mm <sup>2</sup>	
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 <sup>(7)</sup>	°C
Protection Rating	IP65 - Outdoor and Indoor	

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

(7) Power derating from 50 °C

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## StorEdge Solution with Backup Power

