

# StorEdge<sup>®</sup> Single Phase Inverter

for DACH, Belgium & The Netherlands

SE5000-RWS



STOREDGE<sup>®</sup>

## Ideal for battery storage and backup power

- /// **Supports StorEdge Solution Applications** - reduce electric bills with maximised 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-RWS<sup>(1)</sup>

#### SE5000-RWS

#### OUTPUT - AC (LOADS/GRID)

Rated AC Power Output	5000 <sup>(2)</sup>	VA
Max AC Power Output	5000 <sup>(2)</sup>	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	25	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	%

#### OUTPUT - AC (BACKUP POWER)<sup>(4)</sup>

Rated AC Power Output	5000	VA
Max AC Power Output - Surge (for 10 seconds)	7000	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

#### 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	W
Max Input Current	19.5	Adc
2-pole Disconnection	Yes	

#### INPUT - DC (BATTERY)

Supported Battery Types	LG Chem RESU7H LG Chem RESU10H <sup>(5)</sup>	
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	17.5	Adc
2-pole Disconnection	Yes	
DC Fuses on Plus and Minus	25A (field replaceable)	

<sup>(1)</sup> An external disconnection unit is required

<sup>(2)</sup> Limited to 4600VA when inverter is set to Germany

<sup>(3)</sup> The StorEdge Inverter must be connected Line to Neutral (and not Line to Line)

<sup>(4)</sup> Not designed for standalone applications and requires AC for commissioning

<sup>(5)</sup> LG Chem RESU10H battery can be connected only to inverters with part number: SE5000-RWS2XXXXX

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#### ADDITIONAL FEATURES

Supported Communication Interfaces	RS485 for battery, RS485, Ethernet, ZigBee (optional), Wi-Fi (optional)	
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 VDE-AR-E 2100-712 (part7); OVE R11-1	
Backup Power Requirements	An external disconnection unit is required to ensure Neutral and/or Ground disconnection requirements in backup. The inverter is compatible with a single phase unit provided by Enwitec ( <a href="http://enwitec.eu">http://enwitec.eu</a> ).	

#### STANDARD COMPLIANCE

Safety	IEC-62103 (EN50178), IEC-62109	
Grid Connection Standards <sup>(6)</sup>	VDE-AR-N-4105; VDE-AR 2510-2 <sup>(6)</sup>	
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	

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

<sup>(7)</sup> Applies in conjunction with the external disconnection unit

<sup>(8)</sup> Power derating from 50 °C. For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>

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## StorEdge Solution with Backup Power and Single Phase External Disconnection Unit

