

StorEdge[®] Single Phase Inverter

for DACH, Belgium & The Netherlands

SE5000-RWS



STOREDGE[®]

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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OUTPUT - AC (LOADS/GRID)

Rated AC Power Output	5000 ⁽²⁾	VA
Max AC Power Output	5000 ⁽²⁾	VA
AC Output Voltage (Nominal), L-N ⁽³⁾	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)⁽⁴⁾

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 ⁽⁵⁾	
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)	

⁽¹⁾ An external disconnection unit is required

⁽²⁾ Limited to 4600VA when inverter is set to Germany

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

⁽⁴⁾ Not designed for standalone applications and requires AC for commissioning

⁽⁵⁾ 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 (http://enwitec.eu).	

STANDARD COMPLIANCE

Safety	IEC-62103 (EN50178), IEC-62109	
Grid Connection Standards ⁽⁶⁾	VDE-AR-N-4105; VDE-AR 2510-2 ⁽⁶⁾	
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 ²	
AC Output (Backup) conduit size / 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	dB(A)
Min - Max Operating Temperature	-20 to +60 ⁽⁷⁾	°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⁾ Applies in conjunction with the external disconnection unit

⁽⁸⁾ 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

