Solahart
ENERGY Free FROM THE SUN®

SOLAREDGE SINGLE PHASE STOREDGE™ INVERTER

SE5000-AUS20NNB2

SolarEdge's single phase StoreEdge™ inverter is an all-in-one solution that uses a single on-grid DC optimised inverter to manage and monitor both solar generation and energy storage.

Homeowners are automatically provided with backup power in the event of grid interruption to power to pre-selected loads.

Solar energy can be stored in a battery for on-grid applications such as meeting export limitations, offering demand response, peak shaving and performing time of use shifting for reduced electricity bills.

Safety is enhanced during installation, maintenance and emergencies, while the online SolarEdge Portal monitors the performance of each individual panel.

REDUCE ELECTRICITY BILLS WITH MAXIMISED SELF CONSUMPTION

HOW YOU BENEFIT

HIGH EFFICIENCY

Includes hardware required for automatically supplying power to backed-up loads in the event of grid outages.

SIMPLE DESIGN

Single inverter for managing PV production, battery storage and backup power.

ENHANCED SAFETY

Includes integrated rapid shutdown functionality and designed to eliminate high voltage during installation, maintenance or firefighting.

INNOVATIVE

Built-in monitoring of battery status, PV production, remaining backup power, and self-consumption data.

SOLAHART WARRANTY

Enjoy a 12-year warranty, for peace of mind.*

Technical Data

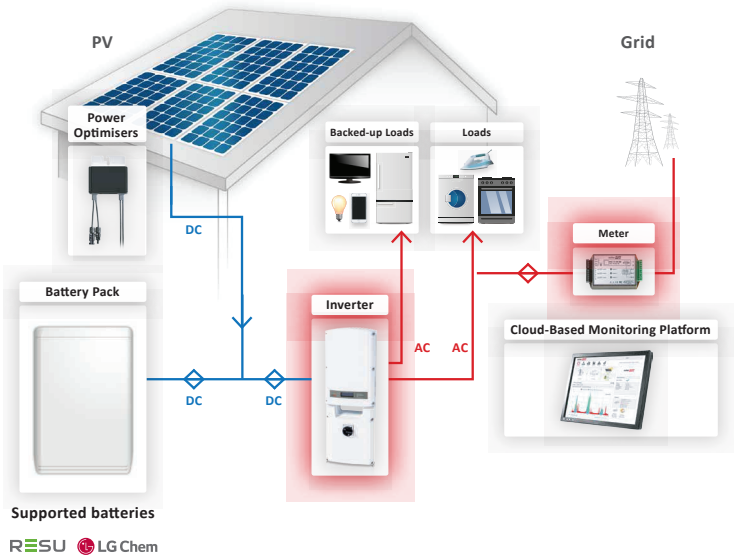
MODELS	STOREDGE SINGLE PHASE INVERTER SE5000-AUS2ONNB2	
Output AC	**Loads/Grid**	**Backup Power[1]**
Rated AC power output	4985 VA	4985 VA
Maximum AC power output	4985 VA	N/A
Maximum AC power output - surge	N/A	6600 VA
AC output voltage (nominal), L - N[2]	220 / 230 Vac	
AC output voltage range, L - N	184 - 264.5 Vac	
AC frequency	50 ± 5 Hz	
Maxiumum continuous output current	27 A	22 A
AC Breaker	N/A	Yes
Residual current detector / Residual current step detector	300 / 30 mA	N/A
Utility monitoring, island protection, country configurable thresholds	Yes	N/A
Charge battery from AC (if allowed)	Yes	N/A
Total harmonic distortion (THD)	<3 %	<5 %
Power factor with rated power	>0.99 (configurable; 0.8 leading to 0.8 lagging	0.2 leading to 0.2 lagging
Automatic switchover time	N/A	<2 sec
Typical night time power consumption	<5 W	

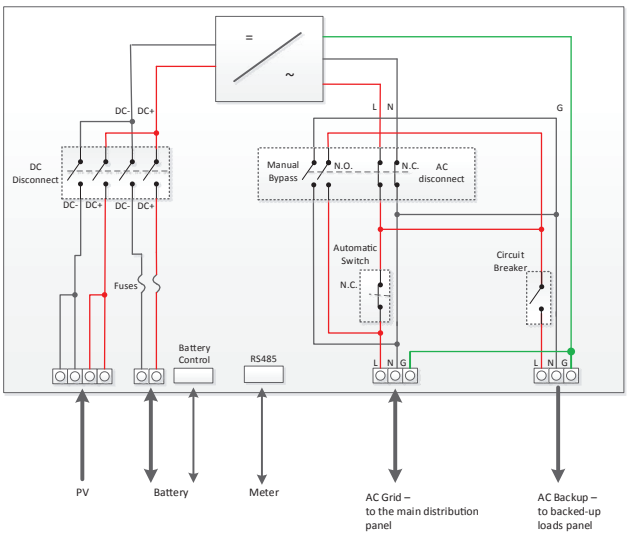
Input DC (Battery)	
Number of batteries per inverter	1
Continuous peak power	5000 W
Compatible batteries	LG Chem RESU10-SEG
Max input voltage	1000 Vdc
Max input current	17.5 Adc
DC fuses on plus and minus	25 A (field replaceable)
Input DC (PV)	
Max DC power (STC)	6750 W
Max input current	19.5 Adc
2-pole disconnection	Yes
Input DC (PV and Battery)	
Transformer-less, ungrounded	Yes
Maximum input voltage	500 Vdc
Nom DC input voltage	400 Vdc
Reverse-polartity protection	Yes
Earth-fault isolation detection	600 kΩ Sensitivity
Maximum inverter efficiency	97.6 %
European weighted efficiency	97.4 %

Standard Compliance	
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, IEC6100-3-12

Installation Specification		
AC output conduit size / wire cross section	Loads / Grid	32 mm / 4-14 mm²
	Backup	25-32 mm[4] / 4-14 mm²
DC output conduit size / wire cross section	PV	25 mm / 4-6 mm²
	Battery	25 mm / 2.5-6 mm²
Dimensions with connection unit (H x W x D)		962 x 315 x 184 mm
Weight with connection unit		26.5 kg
Cooling		Natural convection fan
Noise		< 50 dBA
Min - max operating temperature		-20 to +60°C (power derating from 50°C)
Protection rating		IP65 - Outdoor and indoor

StorEdge Solution with Backup Power





[1] Not designed for standalone applications and requires AC for commissioning. [2] The StoreEdge Inverter must be connected Line to Neutral (and not Line to Line). [3] For all standards refer to Certifications category in Downloads page: http://solaredge.com/groups/support/downloads. [4] Knockout.
* For full details see Solahart Owner's Guide & Installation Instructions. 5 year warranty applies to RS485 Expansion Kit, SolarEdge Meter and Wireless Communication products excluding GSM Cellular Modem.

Specifications and designs included in this data sheet are subject to change without notice.

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