



StorEdge Single Phase Inverter

for Australia

SE5000-AUS / SE6000-AUS



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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	SE5000-AUS	SE6000-AUS	
OUTPUT - AC (LOADS/GRID)			
Rated AC Power Output	4985	6000	VA
Max AC Power Output	4985	6000	VA
AC Output Voltage (Nominal), L-N ⁽²⁾	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; 0.8 leading to 0.8 lagging)		
Typical Nighttime Power Consumption	<5		W
OUTPUT - AC (BACKUP POWER)⁽³⁾			
Rated AC Power Output	Lower of: 4985, battery max power		VA
Max AC Power Output - Surge	Lower of: 6600, battery max power		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
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
Additional DC Power for DC Coupled StorEdge Systems	kWp equivalent of battery continuous power, and no more than 5kWp		
Max Input Current	19.5	23	Adc
2-pole Disconnection	Yes		
INPUT - DC (BATTERY)			
Compatible Batteries	LG Chem RESU7H LG Chem RESU10H		
Peak Power	LG Chem RESU7H: 5000, LG Chem RESU10H: 7000		W
Number of Batteries per inverter	1 or 2 ⁽⁴⁾		
Continuous Power	LG Chem RESU7H: 3500, LG Chem RESU10H: 5000		W
Max Input Voltage	1000		Vdc
Max Input Current	17.5		Adc
DC Fuses on Plus and Minus	25A (field replaceable)		
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485 for battery, RS485, Ethernet, ZigBee (optional), Wi-Fi (optional)		
Battery Power Supply	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⁾ These specifications apply to inverters with part numbers SEXXXX-AUS2XXXXX

⁽²⁾ The StorEdge Inverter must be connected Line to Neutral (and not Line to Line)

⁽³⁾ Not designed for standalone applications and requires AC for commissioning

⁽⁴⁾ When connecting two LG Chem batteries, each battery must have a different part number; supporting SolarEdge firmware required



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STANDARD COMPLIANCE (PENDING)		
Safety	IEC-62103 (EN50178), IEC-62109	
Grid Connection Standards ⁽⁴⁾	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	32mm / 4-14mm ²	
AC Output (Backup) conduit size / wire cross section	25-32mm knockout / 4-14mm ²	
DC Input (PV) conduit size / wire cross section	25mm / 4-6mm ²	
DC Input (Battery) conduit size / wire cross section	25mm / 4-6mm ²	
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 ⁽⁵⁾	°C
Protection Rating	IP65 - Outdoor and Indoor	

⁽⁴⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁵⁾ Power derating from 50 °C



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StorEdge Solution with Backup Power

