



# 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



# StorEdge Single Phase Inverter

for Australia SE5000-AUS<sup>(1)</sup> / SE6000-AUS<sup>(1)</sup>

	SE5000-AUS	SE6000-AUS	
<b>OUTPUT - AC (LOADS/GRID)</b>			
Rated AC Power Output	4985	6000	VA
Max AC Power Output	4985	6000	VA
AC Output Voltage (Nominal), L-N <sup>(2)</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; 0.8 leading to 0.8 lagging)		
Typical Nighttime Power Consumption	<5		W
<b>OUTPUT - AC (BACKUP POWER)<sup>(3)</sup></b>			
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
<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
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		
<b>INPUT - DC (BATTERY)</b>			
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 <sup>(4)</sup>		
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)		
<b>ADDITIONAL FEATURES</b>			
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)		

<sup>(1)</sup> These specifications apply to inverters with part numbers SEXXXX-AUS2XXXXX

<sup>(2)</sup> The StorEdge Inverter must be connected Line to Neutral (and not Line to Line)

<sup>(3)</sup> Not designed for standalone applications and requires AC for commissioning

<sup>(4)</sup> 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 <sup>(4)</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	32mm / 4-14mm <sup>2</sup>	
AC Output (Backup) conduit size / wire cross section	25-32mm knockout / 4-14mm <sup>2</sup>	
DC Input (PV) conduit size / wire cross section	25mm / 4-6mm <sup>2</sup>	
DC Input (Battery) conduit size / wire cross section	25mm / 4-6mm <sup>2</sup>	
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>(5)</sup>	°C
Protection Rating	IP65 - Outdoor and Indoor	

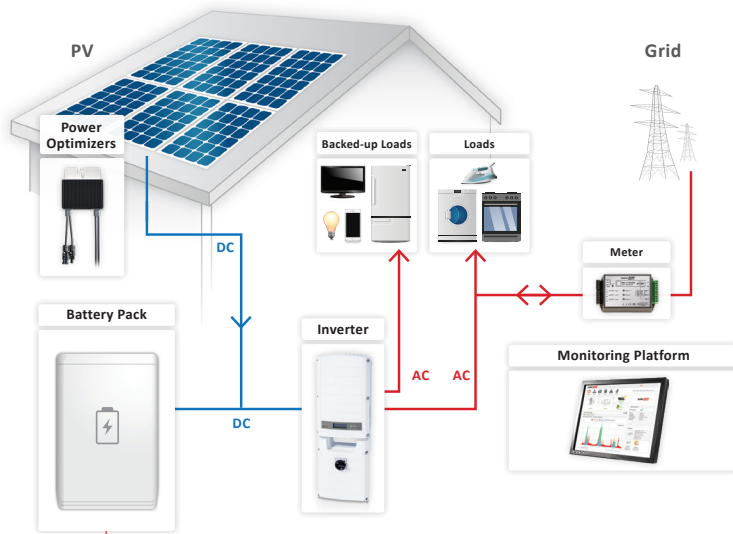
<sup>(4)</sup> For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

<sup>(5)</sup> Power derating from 50 °C



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## StorEdge Solution with Backup Power



Supported Batteries  
SU LG Chem

