

# StorEdge™ AC Coupled Single Phase Inverter for Australia

SE3000-AUSAC / SE5000-AUSAC



STOREDGE™

## Ideal for battery storage and backup power

- // **Supports StorEdge Solution Applications** - reduce electric bills with maximised self-consumption and profile programming
- // **Enhanced Safety** - designed to eliminate high voltage during installation, maintenance or firefighting
- // **Provides Backup Power** - StorEdge Inverter includes the hardware required for automatically supplying power to backed-up loads in the event of grid outages
- // **Full Visibility** - built-in monitoring of battery status, remaining backup power
- // **Simple Design and Installation** - single inverter for managing battery storage and backup power
- // **Easy Maintenance** - remote access to inverter software

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SE3000-AUSAC<sup>(1)</sup> / SE5000-AUSAC<sup>(1)</sup>

	SE3000-AUSAC	SE5000-AUSAC	UNIT
<b>OUTPUT - AC (LOADS/GRID)</b>			
Rated AC Power Output	3000	4985	VA
Max AC Power Output	3000	4985	VA
AAC 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	14	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)		
<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	27		A
AC Breaker	Yes		
THD	<5		%
Power Factor With Rated Power	0.2 leading to 0.2 lagging		
Automatic Switchover Time	<2		sec
<b>INPUT - DC</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		%
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	19.5		Adc
DC Fuses on Plus and Minus	25A (field replaceable)		
<b>ADDITIONAL FEATURES</b>			
Supported Communication Interfaces	RS485 for battery, RS485, Ethernet, ZigBee for Smart Energy (optional) <sup>(5)</sup> , Wi-Fi <sup>(6)</sup> (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 to VDE 2100-712 (pending)		

(1) These specifications apply to inverters with part numbers SEXXXX-AUSACXXXX

(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

(5) For more information refer to: <https://www.solaredge.com/sites/default/files/se-zigbee-plug-in-wireless-communication-for-setapp-datasheet.pdf>

(6) Wi-Fi connectivity requires an external antenna. For more information refer to: <https://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf>

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STANDARD COMPLIANCE (PENDING)		
Safety	IEC-62103 (EN50178), IEC-62109	
Grid Connection Standards <sup>(7)</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 (Battery) conduit size / wire cross section	25mm / 4-6mm <sup>2</sup>	
Dimensions with Connection Unit (HxWxD)	962 x 315 x 184	
Weight with Connection Unit	26.5	
Cooling	Natural convection and internal fan (user replaceable)	
Noise	<50	
Min - Max Operating Temperature	-20 to +60 <sup>(8)</sup>	
Protection Rating	IP65 - Outdoor and Indoor	

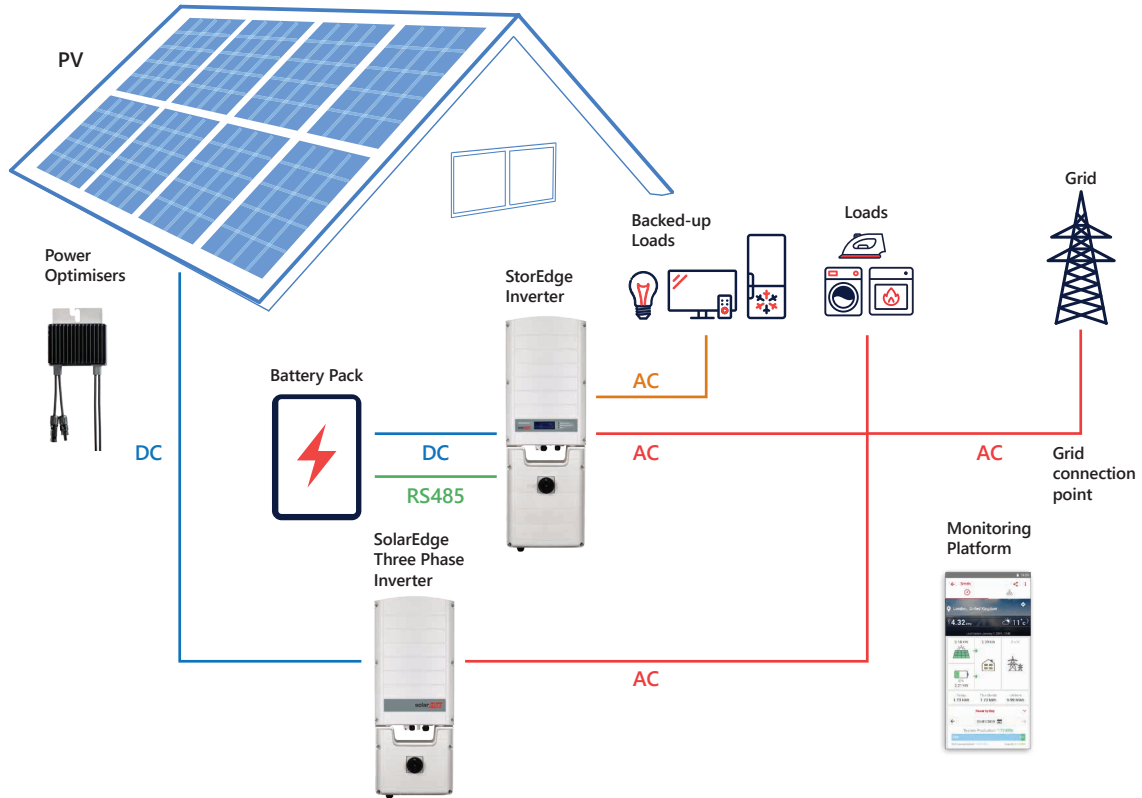
(7) For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

(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 AC Coupled Single Phase Inverter with Three Phase SolarEdge Inverter



## StorEdge AC Coupled Single Phase Inverter with Non-SolarEdge Inverter

