# StorEdge<sup>™</sup> Single Phase Inverter

## for Australia

SE3000-AUS / SE5000-AUS / SE6000-AUS



#### Ideal for battery storage and backup power

- Supports StorEdge Solution Applications

   reduce electric bills with maximised selfconsumption and profile programming
- Provides Backup Power StorEdge Inverter includes the hardware required for automatically supplying power to backedup 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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### SE3000-AUS<sup>(1)</sup> / SE5000-AUS<sup>(1)</sup> / SE6000-AUS<sup>(1)</sup>

	SE3000-AUS	SE5000-AUS	SE6000-AUS	UNIT
OUTPUT - AC (LOADS/GRID)			-	
Rated AC Power Output	3000	5000	6000	VA
Max AC Power Output	3000	5000	6000	VA
AAC 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	14	2	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) <sup>(3)</sup>				
Rated AC Power Output	L	ower of: 5000, battery max pow	ver	VA
Max AC Power Output - Surge	Lower of: 6600, battery max power		ver	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			Vac
Ground-Fault Isolaton Detection	600kΩ Sensitivity			
Maximum Inverter Efficiency				%
European Weighted Efficiency	97.6 97.4			%
INPUT - DC (PV)		57.4		/0
	4050	6750	8100	14/
Maximum DC Power (STC)				W
Additional DC Power for DC Coupled StorEdge Systems	kWp equivalent of battery continuous power, and no more than 5kWp		A I	
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 RESUTH LG Chem RESUTH: 5000, LG Chem RESU10H: 7000			W
Number of Batteries per inverter	1 or 2 <sup>(4)</sup>			~ ~ ~
				W
Continuous Power	LG Chem RESU7H: 3500, LG Chem RESU10H: 5000			
Max Input Voltage	500 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 (per	nding)	

(1) 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)

 $^{\scriptscriptstyle (3)}$  Not designed for standalone applications and requires AC for commissioning

<sup>(4)</sup> When connecting two LG Chem bateries, 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>(5)</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>(6)</sup>	°C	
Protection Rating	IP65 - Outdoor and Indoor		

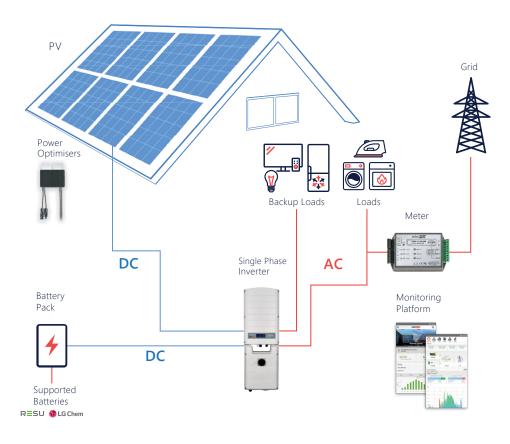
<sup>(5)</sup> For all standards refer to Certifications category in Downloads page: <u>http://www.solaredge.com/groups/support/downloads</u>

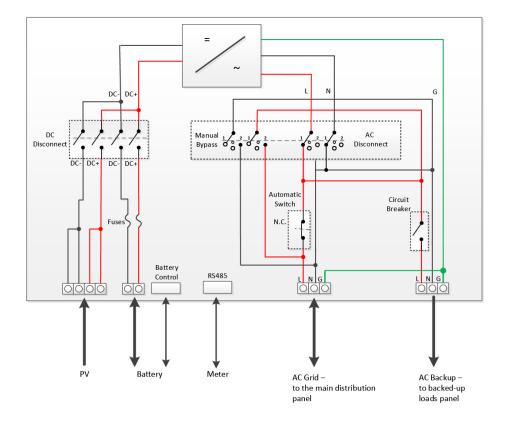
 $^{\scriptscriptstyle (6)}$  Power derating from 50 °C

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#### StorEdge Solution with Backup Power





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