StorEdge™ Single Phase Inverter

for Australia

SE3000-AUS / 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

solaredge

/ StorEdge™ Single Phase Inverter
for Australia
SE3000-AUS[1] / SE5000-AUS[1] / SE6000-AUS[1]

	SE3000-AUS	SE5000-AUS	SE6000-AUS	UNIT
OUTPUT - AC (LOADS/GRID)				
Rated AC Power Output	3000	4985	6000	VA
Max AC Power Output	3000	4985	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	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
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 Isolaton Detection	600kΩ Sensitivity			
Maximum Inverter Efficiency	97.6			%
European Weighted Efficiency	97.4			%
INPUT - DC (PV)				
Maximum DC Power (STC)	4050	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	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 (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 bateries, each battery must have a different part number; supporting SolarEdge firmware required

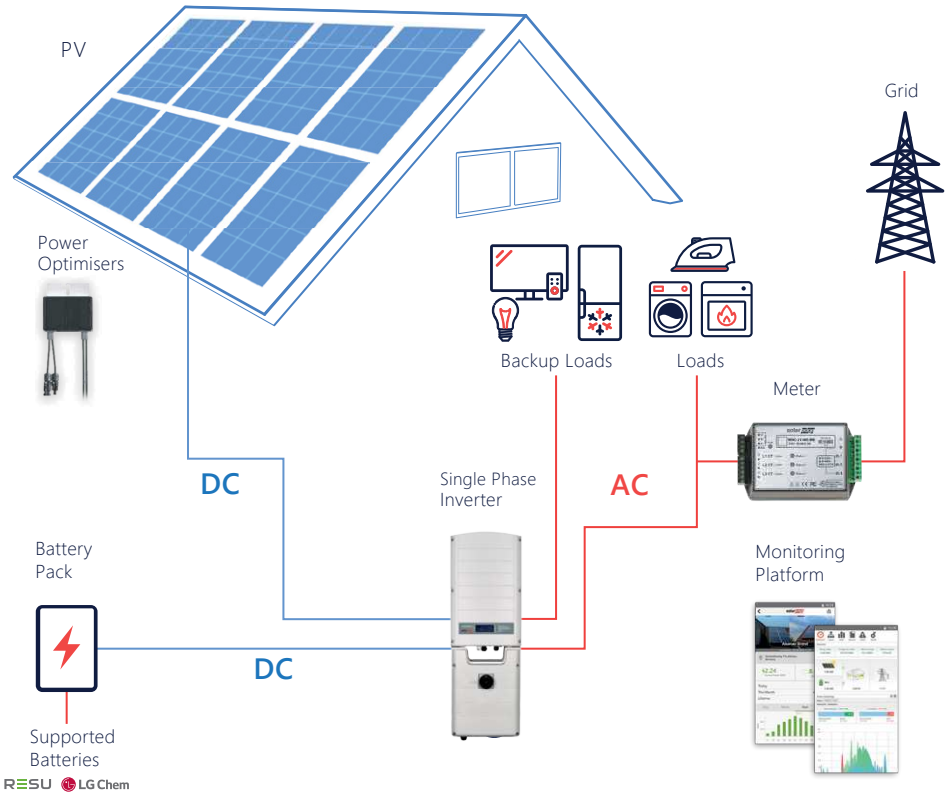
/ StorEdge™ Single Phase Inverter
for Australia
SE3000-AUS(1) / SE5000-AUS(1) / SE6000-AUS(1)

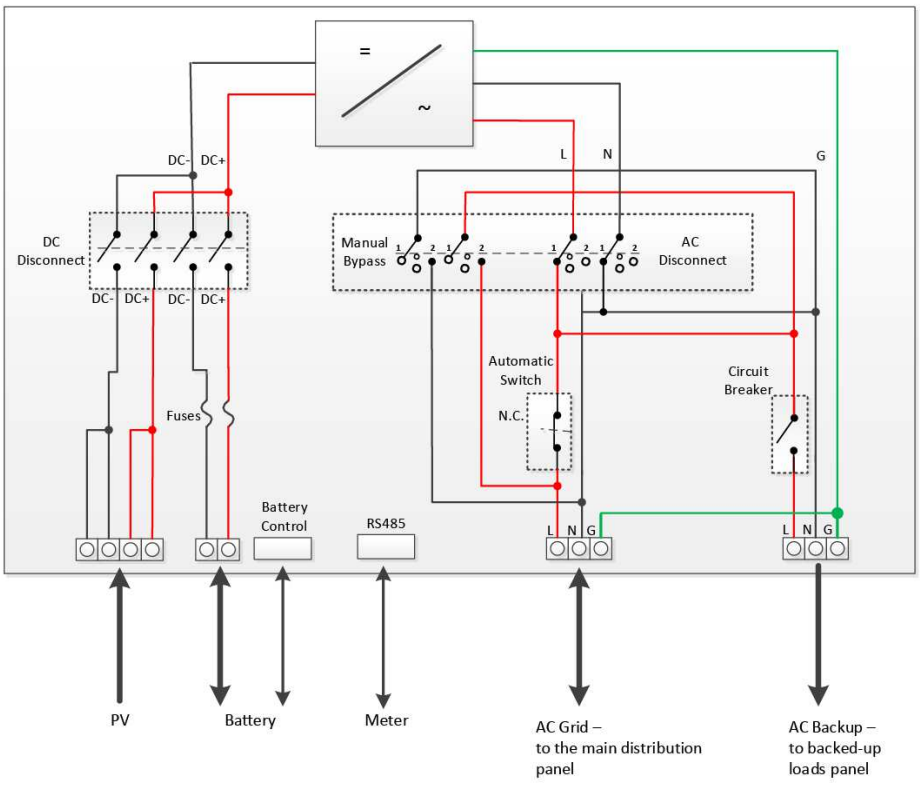
STANDARD COMPLIANCE (PENDING)		
Safety	IEC-62103 (EN50178), IEC-62109	
Grid Connection Standards(5)	VDE 0126-1-1, NRS 097-2-1, AS4777	
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12	
INSTALLATION SPECIFICATIONS		
AC Output (Loads/Grid) conduit size / wire cross section	32mm / 4-14mm^2	
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(6)	˚C
Protection Rating	IP65 - Outdoor and Indoor	

(5) For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
(6) Power derating from 50 ˚C

/ StorEdge™ Single Phase Inverter
for Australia
SE3000-AUS / SE5000-AUS / SE6000-AUS

StorEdge Solution with Backup Power





CE RoHS © SolarEdge Technologies, Inc. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: 03/2019/V01/ENG AUS. Subject to change without notice.

solaredge