



SolarEdge Single Phase StorEdge 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



SolarEdge Single Phase StorEdge Inverter for Australia SE5000-AUS / SE6000-AUS

	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)	220 / 230		Vac
AC Output Voltage Range	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	<5		%
Power factor with rated power	>0.99 (configurable; 0.9 leading to 0.9 lagging)		
Typical Nighttime Power Consumption	<5		W
OUTPUT - AC (BACKUP POWER)⁽¹⁾			
Rated AC Power Output	4985 ⁽²⁾		VA
Max AC Power Output - Surge	7300		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	<3		%
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
Max Input Current ⁽⁴⁾	19.5	23	Adc
2-pole Disconnection	Yes		
INPUT - DC (BATTERY)			
Continuous Peak Power	3300		W
Number of Batteries per Inverter ⁽³⁾	Up to 2, for double capacity		
Max Input Current	8.5		Adc
2-pole Disconnection	Yes		
DC Fuses on Plus and Minus	12A (field replaceable)		
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485 for battery, RS485, Ethernet, ZigBee (optional), Wi-Fi (optional)		
Battery Power Supply	Yes, 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⁾ Not designed for standalone applications and requires AC for commissioning

⁽²⁾ The rated AC power output is the minimum between 4985VA and the battery continuous peak power

⁽³⁾ For two batteries for double power contact SolarEdge technical support



SolarEdge Single Phase StorEdge Inverter for Australia SE5000-AUS / SE6000-AUS

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) gland cable diameter / wire cross section	9-16mm / 2-14mm ²	
AC Output (Backup) gland cable diameter / wire cross section	9-16mm / 2-14mm ²	
DC Input (PV)	2 MC4 pairs	
DC Input (Battery)	1 MC4 pair	
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	dB(A)
Min - Max Operating Temperature	-20 to +60 ⁽⁵⁾	
Protection Rating	IP65 - Outdoor and Indoor	

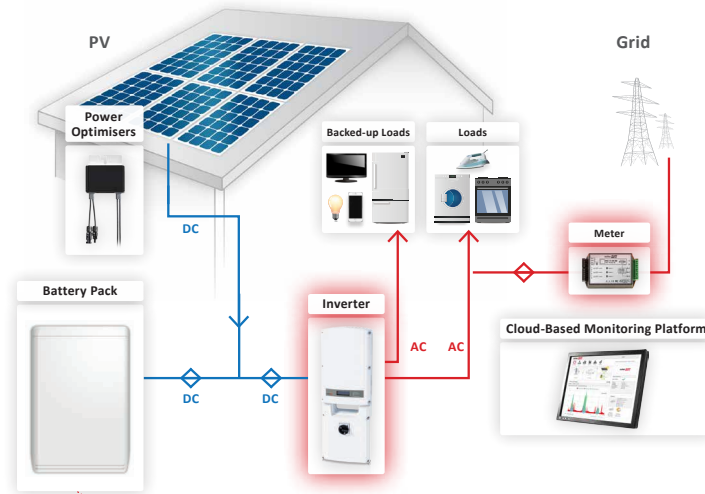
⁽⁴⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁵⁾ Power derating from 50 °C



SolarEdge Single Phase StorEdge Inverter for Australia SE5000-AUS / SE6000-AUS

StorEdge Solution with Backup Power



Supported batteries
POWERWALL TESLA HOME BATTERY | RESU | LG Chem

