



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



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for Australia SE5000-AUS⁽¹⁾ / SE6000-AUS⁽¹⁾

| | 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), 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 | 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 |
| 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 |
| 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 | 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 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 ⁽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) 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 ⁽⁵⁾ | °C |
| 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



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StorEdge Solution with Backup Power

