

The Smart Battery System



The perfect way to upgrade your customer's existing solar systems. Help them achieve higher levels of self-sufficiency and grid independence by adding a Redback AC-coupled battery storage solution to their solar.

The Redback Smart Battery System comes in three convenient sizes so you can ensure your customers have the right amount of storage for their energy needs.

SB9600 / SB14200



SB7200



**7.2kWh, 9.6kWh
or 14.2kWh
battery storage**



**Backup supply in a
power outage***



**Compatible with most
modern solar systems**



**Indoor or outdoor
installation**



**Easy monitoring app
and portal**



**Australian-supported
10-year warranty**

*When backup circuit is connected, and battery energy is available. Appliances selected at the time of install.

V2.4

Ensure you are using the latest datasheet by visiting redbacktech.com

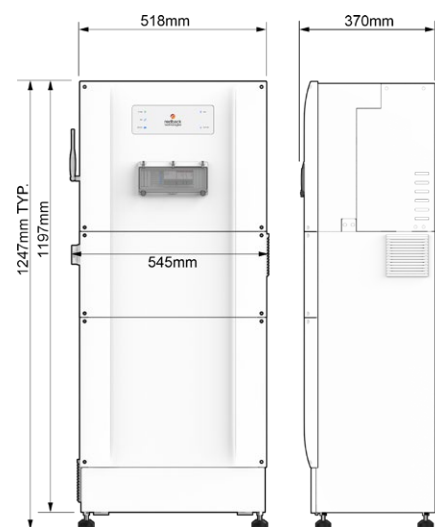
The Smart Battery System

Scan to Download
System Information Pack

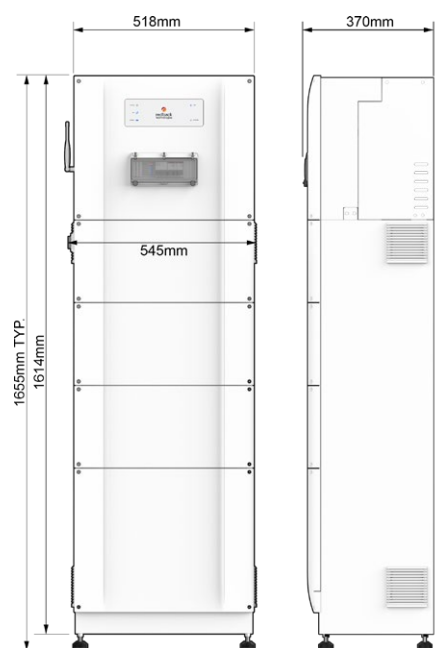


The Smart Battery System

| Product Model | SB7200 | SB9600 | SB14200 |
|---|--|----------------------------|----------------------------|
| Grid Interactive Port | | | |
| Nominal Output Voltage | AC 230V | AC 230V | AC 230V |
| Nominal Output Frequency | 50 Hz | 50 Hz | 50 Hz |
| Max. Output Current | AC 14.3A | AC 19.6A | AC 19.6A |
| Rated Output Apparent Power | 3300VA | 4500VA | 4500VA |
| Rated Input Current | AC 30.4A | AC 39.1A | AC 39.1A |
| Rated Input Apparent Power | 7000VA | 9000VA | 9000VA |
| Power Factor (range) | 0.8 lagging to 0.8 leading | 0.8 lagging to 0.8 leading | 0.8 lagging to 0.8 leading |
| Output Voltage THD | <3% | <3% | <3% |
| Backup Port | | | |
| Nominal Output Voltage | AC 230V | AC 230V | AC 230V |
| Nominal Output Frequency | 50 Hz | 50 Hz | 50 Hz |
| Rated Current | AC 14.3A | AC 19.6A | AC 19.6A |
| Rated Active Power | AC 3300W | AC 4500W | AC 4500W |
| Rated Apparent Power | 3300VA | 4500VA | 4500VA |
| Output Voltage THD | <3% | <3% | <3% |
| General Information | | | |
| Operating Temperature | -20°C to 60°C | | |
| Operating Temperature Derated Output | Below 10°C and over 45°C | | |
| Operating Relative Humidity | 0 - 95% | | |
| Operating Altitude | 0 - 4000m | | |
| Protective Class | I | | |
| Ingress Protection Rating | IP54 | | |
| AC Overvoltage Category | OVC III | | |
| DC Overvoltage Category | OVC II | | |
| Active Anti-islanding Method | Active Frequency Drift | | |
| Inverter Topology | Non-isolated | | |
| Country of Origin | China | | |
| Demand Response Modes | DRM 0 | | |
| Standby Self-Consumption | <15W | | |
| Noise Emissions | <30 dBA | | |
| Warranty | 10 Years | | |
| Efficiency | | | |
| Maximum Efficiency | 96.60% | | |
| Physical Data | | | |
| Installed Weight | 130kg | 165kg | 203kg |
| Material | Aluminium | Aluminium | Aluminium |
| Finish | Sealed and powder coated | Sealed and powder coated | Sealed and powder coated |
| Battery Enclosure Data | | | |
| Number of Battery Units | 3 | 4 | 4 |
| Storage Capacity | 3x2.4kWh | 4x2.4kWh | 4x3.55kWh |
| Battery System Model | RB-HVS-144-50-AC | RB-HVS-192-50-AC | RB-HVS-192-74-AC |
| Maximum Capacity | 7.2kWh | 9.6kWh | 14.2kWh |
| Battery Depth of Discharge | 90% | 90% | 90% |
| Nominal Voltage | DC 144V | DC 192V | DC 192V |
| Rated Current | DC 25A | DC 25A | DC 25A |
| Fan Specification | DC 12V / 0.3A | DC 12V / 0.3A x2 | DC 12V / 0.3A x2 |
| Protective Class | Class I | Class I | Class I |
| Ingress Protection Rating | IP54 | IP54 | IP54 |
| Material | Steel | Steel | Steel |
| Finish | Sealed and powder coated | Sealed and powder coated | Sealed and powder coated |
| Isolation Devices | | | |
| Grid Interactive Port Isolator Rated Operational Current | 50A | | |
| Backup Port Isolator Rated Operational Current | 32A | | |
| Battery Port Isolator Rated Operational Current | 32A | | |
| Battery Cabinet Isolator Rated Operational Current | 32A | | |
| Communications Ports and Protocols | | | |
| Relays | RJ45; 3x Digital I/O; +DC5V & GND | | |
| User Interface | | | |
| Front Panel Display | Coloured LEDs | | |
| Communications | Bluetooth for commissioning; Wi-Fi (2.4GHz only) or ethernet for remote access | | |
| Remote Access | Web Portal; MyRedback App; Redback Install app | | |
| Remote Firmware Updates | Supported | | |
| Power/Energy Monitoring | 1 x utility grade energy meter (class 1) AS/NZS 4777.2:2020 IEC 62109-1:2010 IEC62109-2:2011 IEC 62116:2014 IEC 62040-1:2017 IEC 62477-1:2012 IEC 60529 EN 61000 RCM CE AS/NZS 3000:2018 AS/NZS 5033:2014 (inc. Amd 1 & 2) AS/NZS 5139:2019 | | |
| Certifications and Approvals | | | |
| Designed with Installation Standards Considered | | | |



SB7200 Smart Battery System



SB9600 & SB14200 Smart Battery Systems

