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.

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)		
Certifications and Approvals	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		
Designed with Installation Standards Considered	AS/NZS 3000:2018 AS/NZS 5033:2014 (inc. Amd 1 & 2) AS/NZS 5139:2019		

SB7200 Smart Battery System

SB9600 & SB14200 Smart Battery Systems

redback technologies