

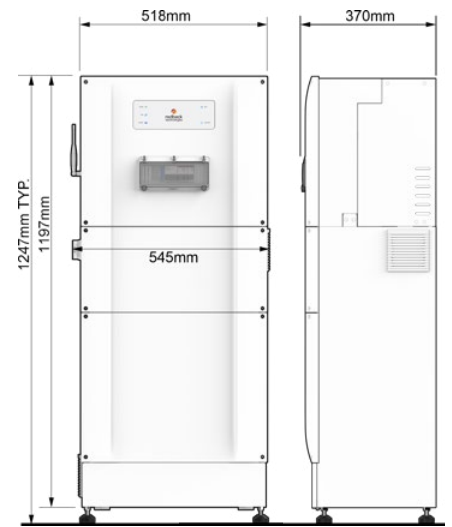
# The Smart Battery System

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System Information Pack

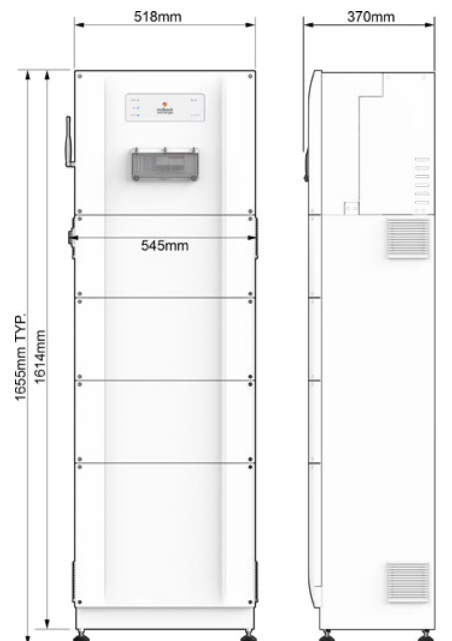


## The Smart Battery System

Product Model	SB7200	SB9600	SB14200
<b>Grid Interactive Port</b>			
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%
<b>Backup Port</b>			
Nominal Output Voltage	AC 230V	AC 230V	AC 230V
Nominal Output Frequency	50 Hz	50 Hz	50 Hz
Rated Current	AC 13.4A	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%
<b>General Information</b>			
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		
<b>Efficiency</b>			
Maximum Efficiency	96.60%		
<b>Physical Data</b>			
Installed Weight	130kg	165kg	203kg
Material	Aluminium	Aluminium	Aluminium
Finish	Sealed and powder coated	Sealed and powder coated	Sealed and powder coated
<b>Battery Enclosure Data</b>			
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
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
<b>Isolation Devices</b>			
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		
<b>Communications Ports and Protocols</b>			
Relays	RJ45; 3x Digital I/O; +DC5V & GND		
<b>User Interface</b>			
Front Panel Display	Coloured LEDs		
Communications	Bluetooth for commissioning; Wi-Fi 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)		
<b>Certifications and Approvals</b>			
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			
<b>Designed with Installation Standards Considered</b>			



SB7200 Smart Battery System



SB9600 & SB14200 Smart Battery Systems