



The Smart Hybrid System is your easy to install, all-in-one solution for single phase homes. It combines a 5kVA solar inverter with expandable battery storage of up to 14.2kWh (or 28.4kWh with optional expansion cabinet) and includes integrated isolators and pre-wired BoS for your convenience.



4.8kWh - 28.4kWh Battery Storage Capacity



Backup Supply in a Power Outage*



Streamlined All-In-One Design



Indoor or Outdoor Installation



Easy Monitoring App and Portal



Australian-supported 10-Year Warranty



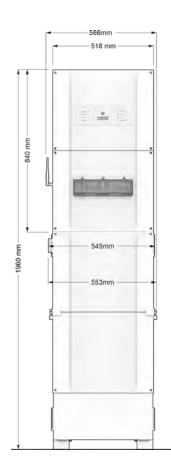
*When backup circuit is connected, and battery energy is available. Appliances selected at the time of install.

The Smart Hybrid System

Scan to Download System Information Pack



Product Model	SH5000
Product Model PV Port	303000
Number of MPPTs	2
Strings per MPPT Input	1/1
MPPT Operating Voltage (range) Maximum Input Voltage (Vmax)	DC 125 - 550V DC 580V
Maximum Input Voltage (Vinax) Maximum Current (Imp)	DC 380V DC 11/11A
Short Circuit Current (Isc)	DC 13.8/13.8A
Grid Interactive Port	
Nominal Output Voltage	AC 230V 50 Hz
Nominal Output Frequency Max. Output Current	AC 24.5A
Rated Output Apparent Power	5000VA
Rated Input Current	AC 40A
Rated Input Apparent Power	9200VA
Power Factor (range) Output Voltage THD	0.8 lagging to 0.8 leading <4.5%
Backup Port	4.070
Nominal Output Voltage	AC 230V
Nominal Output Frequency	50 Hz
Rated Current Rated Active Power	AC 20A AC 4600W
Rated Apparent Power	4600VA
Peak Apparent Power	6900VA (10 sec max)
Output Voltage THD	<4.5%
Battery Port	DO 40 (0)/
Voltage (nominal) Max, Current (charge)	DC 40 - 60V DC 90 A
Max. Current (charge) Max. Power (charge)	DC 90 A DC 4600W
Max. Current (discharge)	DC 100A
Max. Power (charge)	DC 4600W
Battery Type	Li-ion
Battery Depth of Discharge General Information	90%
Operating Temperature	-25°C to 60°C
Operating Temperature Derated Output	Below 10°C and over 45°C
Operating Relative Humidity	0 - 95%
Operating Altitude	0 - 3000m
Protective Class	I ID65
Ingress Protection Rating AC Overvoltage Category	IP65 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 Standby Self-Consumption	DRM 0 <13W
Noise Emissions	<30 dBA
Warranty	10 Years
Efficiency	
Maximum Efficiency	97.60%
Maximum Battery to Load Efficiency European Efficiency	94.00% 97.00%
Physical Data	97.00%
Installed Weight	132-203kg
Material	Aluminium
Finish Battery Enclosure Data	Sealed and powder coated
Enclosure Model	BE14000
Name	Smart Hybrid Battery Enclosure
Number of Battery Units	2 - 4 (up to 8 with expansion cabinet)
Storage Capacity	4 x 2.4kWh
	4 x 3.55kWh
Battery System Model	US2000 US3000
Maximum Capacity	28.4kWh*
Nominal Voltage	DC 48V
Rated Current	DC 100A
Fan Specification Protective Class	DC 48V / 0.13A x2
Protective Class Ingress Protection Rating	IP54
Dimensions (W x D x H)	518x352x1123 mm
Material	Steel
Finish	Sealed and powder coated
Isolation Devices	
PV Port Isolator Utilisation Category	DC-PV2
Grid Interactive Port Isolator Rated Operational Current Backup Port Isolator Rated Operational Current	32A 25A
Battery Port Isolator Rated Operational Current	125A
Battery Cabinet Isolator Rated Operational Current	125A
Communications Dants and Data 1	
	RJ45; 4x Digital I/O; +DC5V & GND
Relays	, , ,
Relays User Interface	-
Relays User Interface Front Panel Display	Coloured LEDs Bluetooth for commissioning;
Relays User Interface Front Panel Display	Coloured LEDs
Relays User Interface Front Panel Display Communications Remote Access	Coloured LEDs Bluetooth for commissioning; Wi-Fi or ethernet for remote access Web Portal; MyRedback App; Redback Install app
Communications Ports and Protocols Relays User Interface Front Panel Display Communications Remote Access Remote Firmware Updates Power/Energy Monitoring	Coloured LEDs Bluetooth for commissioning; Wi-Fi or ethernet for remote access Web Portal; MyRedback App, Redback Install app Supported
Relays User Interface Front Panel Display Communications Remote Access	Coloured LEDs Bluetooth for commissioning; Wi-Fi or ethernet for remote access Web Portal; MyRedback App; Redback Install app
Relays User Interface Front Panel Display Communications Remote Firmware Updates Power/Energy Monitoring	Coloured LEDs Bluetooth for commissioning; Wi-Fi or ethernet for remote access Web Portal; MyRedback App, Redback Install app Supported Includes 1 x tuility grade energy meter (class 1) AS/NZS 47777.2:2020 IEC 62109-2:2010 IEC 62109-2:2011 IEC 62109-2:2011 IEC 62140-1:2017 IEC 62477-1:2012 IEC 60529





*Maximum capacity 14.2kWh with single cabinet, or 28.4kWh with optional expansion cabinet.