The Smart Hybrid System



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

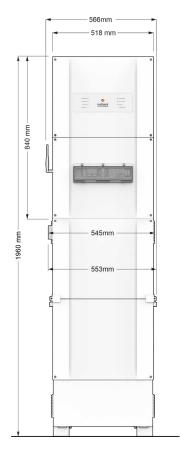


The Smart Hybrid System

Scan to Download System Information Pack



Product Model	SH5000
PV Port Maximum Recommended PV Input Power ¹	10000Wp
Number of MPPTs	2
Strings per MPPT Input	1/1
MPPT Operating Voltage (range) ¹	DC 125 - 550V
Maximum Input Voltage (Vmax) Maximum Current (Imp) ¹	DC 580V DC 14/14A
Short Circuit Current (Isc)	DC 14/14A DC 18/18A ⁵
Grid Interactive Port	
Nominal Output Voltage	AC 230V
Nominal Output Frequency	50 Hz
Max. Output Current Pated Output Apparent Power	AC 24.5A 5000VA
Rated Output Apparent Power Rated Input Current	AC 40A
Rated Input Apparent Power	9200VA
Power Factor (range)	0.8 lagging to 0.8 leading
Output Voltage THD	<4.5%
Backup Port	10.0001
Nominal Output Voltage Nominal Output Frequency	AC 230V 50 Hz
Rated Current	AC 20A
Rated Active Power	AC 4600W
Rated Apparent Power	4600VA
Peak Apparent Power	6900VA (10 sec max)
Output Voltage THD	<4.5%
Battery Port	DC 40 - 60V
Voltage (nominal) Max. Current (charge)	DC 90 A
Max. Power (charge)	DC 4600W ²
Max. Current (discharge)	DC 100A
Max. Power (charge)	DC 4600W
Battery Type	Li-ion
Battery Depth of Discharge	90%
General Information Operating Temperature	-25°C to 60°C
Operating Temperature Operating Temperature Derated Output	Below 10°C and over 45°C
Operating Relative Humidity	0 - 95%
Operating Altitude	0 - 3000m
Protective Class	I
ngress Protection Rating	IP65
AC Overvoltage Category	OVC III
DC Overvoltage Category Active Anti-islanding Method	OVC II Active Frequency Drift
Inverter Topology	Non-isolated
Country of Origin	China
Demand Response Modes	DRM 0
Standby Self-Consumption	<13W
Noise Emissions	<30 dBA
Warranty	10 Years
Efficiency Maximum Efficiency	97.60%
Maximum Battery to Load Efficiency	94.00%
European Efficiency	97.00%
Physical Data	
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
J . ,	4 x 3.55kWh US2000B
Battery System Model	US3000A/B ³
Maximum Capacity	28.4kWh ⁴
Nominal Voltage	DC 48V
Rated Current	DC 100A
an Specification	DC 48V / 0.13A x2
Protective Class	l IP54
ngress Protection Rating Dimensions (W x D x H)	IP54 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	32A
Backup Port Isolator Rated Operational Current	25A 125A
Battery Port Isolator Rated Operational Current Battery Cabinet Isolator Rated Operational Current	125A 125A
Communications Ports and Protocols	1200
	RJ45; 4x Digital I/O; +DC5V & GND
Relays	
User Interface	
User Interface	Coloured LEDs
User Interface Front Panel Display	Bluetooth for commissioning;
User Interface Front Panel Display Communications	Bluetooth for commissioning; Wi-Fi (2.4GHz only) or ethernet for remote access
User Interface Front Panel Display Communications Remote Access	Bluetooth for commissioning; Wi-Fi (2.4GHz only) or ethernet for remote access Web Portal; MyRedback App; Redback Install app
User Interface Front Panel Display Communications Remote Access Remote Firmware Updates	Bluetooth for commissioning; Wi-Fi (2.4GHz only) or ethernet for remote access
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User Interface Front Panel Display Communications Remote Access Remote Access Power/Energy Monitoring	Bluetooth for commissioning; Wi-Fi (2.4GHz only) or ethernet for remote access Web Portal; MyRedback App; Redback Install app Supported Includes 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
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Relays User Interface Front Panel Display Communications Remote Access Remote Firmware Updates Power/Energy Monitoring Certifications and Approvals Designed with Installation	Bluetooth for commissioning; Wi-Fi (2.4GHz only) or ethernet for remote access Web Portal; MyRedback App; Redback Install app Supported Includes 1 x utility grade energy meter (class 1) AS/NZS 4777.2:2020 IEC 62109-1:2010 IEC 62109-2:2011 IEC 62116:2014 IEC 62040-1:2017 IEC 62477-1:2012 IEC 62477-1:2012 IEC 60529 EN 61000 RCM







<sup>Max PV Input Power is determined by the appropriate selection of panels within the MPPT voltage and current range
Dependant on number of batteries installed
Not compatible with US3000C, and cannot be made compatible in the future
Maximum capacity 14 2kMW with single cabinet, or 28 4kWh with optional expansion cabinet
Manufacturer's declared and tested Max Short Circuit Current (Isc Max)</sup>