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



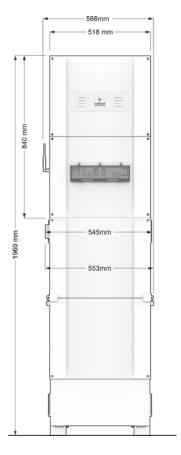
*When backup circuit is connected, and battery energy is available. Appliances selected at the time of install.

The Smart Hybrid System

Scan to Download System Information Pack



PV Port Number of MPPTs Strings per MPPT Input MPPT Operating Voltage (range)¹ Maximum Input Voltage (Vmax) Maximum Input Voltage (Vmax) Maximum Current (Imp)¹ Short Circuit Current (Isc) Grid Interactive Port Nominal Output Voltage Nominal Output Frequency Max. Output Current Rated Output Apparent Power Rated Input Current Rated Input Apparent Power Power Factor (range) Output Voltage THD Backup Port Nominal Output Frequency Rated Active Power Rated Active Power Rated Active Power Rated Active Power Rated Apparent Power Peak Apparent Power Output Voltage THD Battery Port Voltage (nominal) Max. Current (charge) Max. Power (charge) Max. Power (charge) Battery Type Battery Type Battery Type Battery Depth of Discharge General Information Operating Temperature Derated Output Operating Temperature Derated Output Operating Relative Humidity Operating Relative Active Anti-islanding Method Inverter Topology Country of Origin Demand Response Modes Standby Self-Consumption Noise Emissions Waxranty Efficiency Maximum Efficiency Maximum Efficiency Maximum Efficiency Physical Data Installed Weight Material	2 1/1 DC 125 - 550V DC 580V DC 580V DC 14/14A DC 18/18A ⁵ AC 230V 50 Hz AC 24.5A 5000VA AC 40A 9200VA 0.8 lagging to 0.8 leading <4.5% AC 230V 50 Hz AC 20A AC 4600W 4600VA 6900VA (10 sec max) <4.5% DC 40 - 60V DC 90 A DC 4600W Li-ion 90%
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Operating Relative Humidity Operating Altitude Protective Class Ingress Protection Rating AC Overvoltage Category DC Overvoltage Category Active Anti-islanding Method Inverter Topology Country of Origin Demand Response Modes Standby Self-Consumption Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	Below 10°C and over 45°C
Operating Altitude Protective Class Ingress Protection Rating AC Overvoltage Category DC Overvoltage Category Active Anti-islanding Method Inverter Topology Country of Origin Demand Response Modes Standby Self-Consumption Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physicat Data Installed Weight	0 - 95%
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DC Overvoltage Category Active Anti-islanding Method Inverter Topology Country of Origin Demand Response Modes Standby Self-Consumption Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	IP65
Active Anti-islanding Method Inverter Topology Country of Origin Demand Response Modes Standby Self-Consumption Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	OVC III
Inverter Topology Country of Origin Demand Response Modes Standby Self-Consumption Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	OVC II Active Frequency Drift
Country of Origin Demand Response Modes Standby Self-Consumption Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	Non-isolated
Demand Response Modes Standby Self-Consumption Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	China
Noise Emissions Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	DRM 0
Warranty Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	<13W
Efficiency Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	<30 dBA
Maximum Efficiency Maximum Battery to Load Efficiency European Efficiency Physical Data Installed Weight	10 Years
Maximum Battery to Load Efficiency European Efficiency Physicat Data Installed Weight	07.60%
European Efficiency Physical Data Installed Weight	97.60% 94.00%
Physical Data Installed Weight	97.00%
Installed Weight	37.00.0
Material	132-203kg
	Aluminium
Finish	Sealed and powder coated
Battery Enclosure Data Enclosure Model	BE14000
Name	Smart Hybrid Battery Enclosure
Number of Battery Units	2 - 4 (up to 8 with expansion cabinet)
·	4 x 2.4kWh
Storage Capacity	4 x 3.55kWh
Battery System Model	US2000B
	US3000A/B ³
Maximum Capacity Nominal Voltage	28.4kWh ⁴ DC 48V
Rated Current	DC 48V DC 100A
Fan Specification	DC 48V / 0.13A x2
Protective Class	
Ingress Protection Rating	IP54
Dimensions (W x D x H)	518x352x1123 mm
Material	Steel
Finish Isolation Bouless	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
Battery Port Isolator Rated Operational Current	125A
Battery Cabinet Isolator Rated Operational Current	125A
Communications Ports and Protocols	
Relays	RJ45; 4x Digital I/O; +DC5V & GND
User Interface Front Panel Display	Coloured LEDs
• •	Bluetooth for commissioning;
Communications	i-Fi (2.4GHz only) or ethernet for remote access
	/eb Portal; MyRedback App; Redback Install app
Remote Firmware Updates	Supported
Power/Energy Monitoring	ncludes 1 x utility grade energy meter (class 1)
	AS/NZS 4777.2:2020
	IEC 62109-1:2010
	IEC62109-2:2011
Certifications and Approvals	IEC 62116:2014
	IEC 62040-1:2017
	IEC 62040-1:2017 IEC 62477-1:2012
	IEC 62040-1:2017 IEC 62477-1:2012 IEC 60529 EN 61000 RCM
Designed with Installation	IEC 62040-1:2017 IEC 62477-1:2012 IEC 60529 EN 61000 RCM CE
Standards Considered	IEC 62040-1:2017 IEC 62477-1:2012 IEC 60529 EN 61000 RCM







- 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 14.2kWh with single cabinet, or 28.4kWh with optional expansion cabinet
 Manufacturer's declared and tested Max Short Circuit Current (Isc Max)