



Your Australian Choice

for residential solar and battery storage solutions



Australian owned,
operated and designed



Local, Brisbane-based
support



Australian-backed,
10-year warranties



Solutions that don't
cost the earth

Only an Aussie company can design for the Australian market



Australian designed for Aussie homes



Local Brisbane-based tech support



Australian backed 10-year warranty

Smart Hybrid
Single or Three-Phase



Smart Battery
9.6kWh & 14.2kWh



7.2kWh



Smart Inverter
8kVA & 10kVA



5kVA & 6kVA



redback technologies
redbacktech.com

A Redback for every home

Redback Technologies offers a complete range of products, allowing you to upsell and cross-sell as needed. This allows you to focus on a **single brand story**, keeping selling **simple**.

Add a Battery

Install storage at a property with existing rooftop solar



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Smart Battery

Rooftop Solar & Battery Storage

Install both PV & storage at the same time



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**Smart Single or
Smart 3-Phase
Hybrid All-in-One**

Simply Solar

Install a PV system, with the option to upgrade to battery storage at a later date



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Smart Inverter



To find out more about Redback's solar and battery storage solutions visit us at redbacktech.com

Why Redback Technologies is your **Australian Choice**



The Smart Inverter



The Redback Smart Inverter is designed for Australian households looking to invest in solar. Designed and tested in Australia¹, the single-phase grid-tied solar PV inverter series is affordable yet robust and built to survive in harsh Australian outdoor conditions. In-built Smart Load Control allows relay functionality for a single load. Available in four sizes (5kVA, 6kVA, 8kVA & 10kVA), with a smart meter and Wi-Fi dongle coming standard at no extra cost. Ethernet-enabled EMS available as an upgrade.

SI8000 / SI10000



SI5000 / SI6000



5kVA, 6kVA, 8kVA
or 10kVA options



Smart meter & Wi-Fi
dongle included



Smart load
control



Easy monitoring
app and portal



Australian-supported
10-year warranty

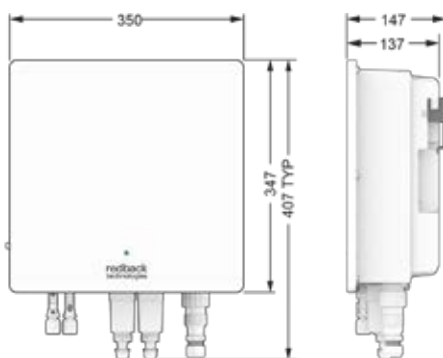


Indoor or outdoor
installation

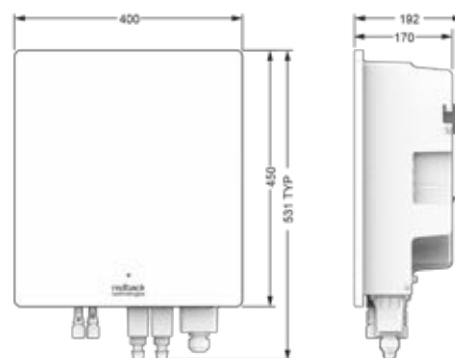


Smart Inverter

Product Model	SI5000	SI6000	SI8000	SI10000
PV Port				
Maximum Recommended PV Input Power ¹	7500Wp	9000Wp	12000Wp	15000Wp
Number of MPPTs	2		2	
Strings per MPPT Input	1/1		2/1	
MPPT Operating Voltage (range) ¹	DC 70 - 540V		DC 70 - 540V	
Maximum Input Voltage (Vmax)	DC 550V		DC 550V	
Maximum Current (Imp) ¹	DC 13.5/13.5A ²		DC 27/13.5A ²	
Short Circuit Current (Isc)	DC 20/20A ³		DC 40/20A ³	
Grid Interactive Port				
Nominal Output Voltage	AC 230V		AC 230V	
Nominal Output Frequency	50 Hz		50 Hz	
Max. Output Current	AC 25A	AC 27.3A	AC 40A	AC 45.5A
Rated Output Apparent Power	5000VA	6000VA	8000VA	10000VA
Peak Output Apparent Power	5500VA	6000VA	8800VA	10000VA
Power Factor (range)	0.8 lagging to 0.8 leading			
Output Voltage THD	<3%			
General Information				
Operating Temperature	-25°C to 60°C			
Operating Relative Humidity	0 - 100%			
Operating Altitude	0 - 4000m			
Protective Class	I			
Ingress Protection Rating	IP65			
AC Overvoltage Category	OVC III			
DC Overvoltage Category	OVC II			
Active Anti-islanding Method	Frequency Shift			
Inverter Topology	Non-isolated			
Country of Origin	China			
Demand Response Modes	DRM 0			
Standby Self-Consumption	<6W			
Noise Emissions	<30 dBA			
Warranty	10 Years			
Efficiency				
Maximum Efficiency	97.3%		97.5%	
European Efficiency	96.5%		96.8%	
Physical Data				
Installed Weight	8.5kg		16kg	
Material	Aluminium			
Finish	Sealed and powder coated			
PV Port Isolator				
Utilisation Category	DC-PV2			
Communications Ports and Protocols				
Relays	Direct IO; on kWh Meter			
User Interface				
Front Panel Display	Coded, coloured LED			
Communications	Bluetooth for commissioning; Wi-Fi for remote access; Ethernet (Optional) NFC			
Remote Access	Web Portal; MyRedback App; Redback Install app			
Remote Firmware Updates	Supported			
Power/Energy Monitoring	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 60529 EN 61000 RCM CE AS/NZS 3000:2018 AS/NZS 5033:2014 (inc. Amd 1 & 2)				
Certifications and Approvals				
Designed with Installation Standards Considered				



SI5000 & SI6000 Smart Inverter



SI8000 & SI10000 Smart Inverter



¹ Max PV Input Power is determined by the appropriate selection of panels within the MPPT voltage and current range
² With firmware 120602
³ Manufacturer's declared and tested Max Short Circuit Current (Isc Max)

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.

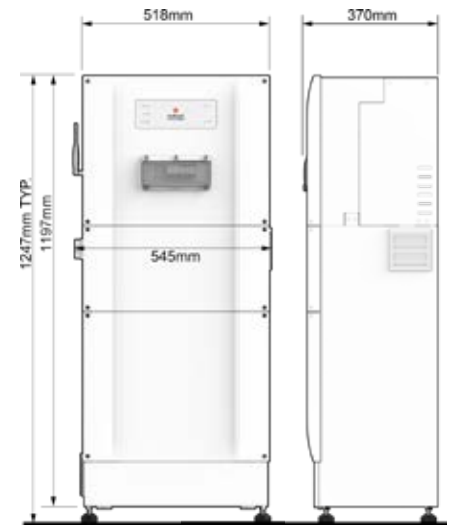
The Smart Battery System

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System Information Pack

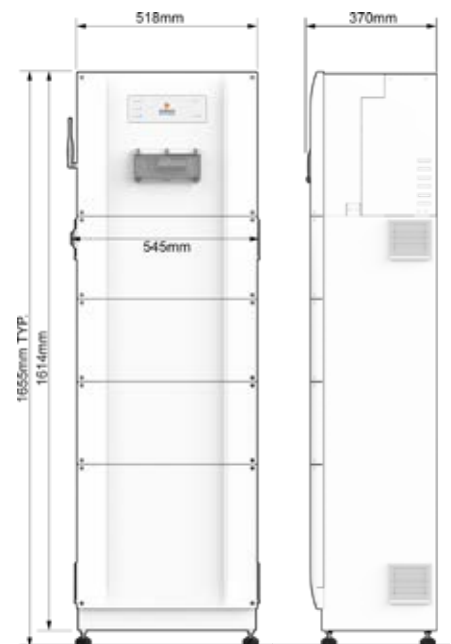


The Smart Battery System

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) 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		
Certifications and Approvals			
Designed with Installation Standards Considered			



SB7200 Smart Battery System



SB9600 & SB14200 Smart Battery Systems



The Smart Hybrid System



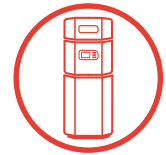
The Smart Hybrid System is your easy to install, all-in-one solution for single phase homes. It combines a 5kVA solar inverter with expandable battery storage of up to 14.2kWh (or 28.4kWh with optional expansion cabinet) and includes integrated isolators and pre-wired BoS for your convenience.



**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**

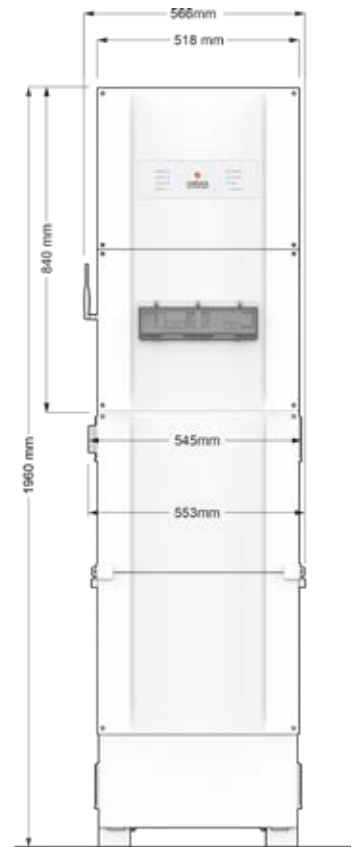
**When backup circuit is connected, and battery energy is available. Appliances selected at the time of install.*

The Smart Hybrid System

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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)	DC 580V
Maximum Current (Imp) ¹	DC 14/14A
Short Circuit Current (Isc)	DC 18/18A ⁵
Grid Interactive Port	
Nominal Output Voltage	AC 230V
Nominal Output Frequency	50 Hz
Max. Output Current	AC 24.5A
Rated Output Apparent Power	5000VA
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	
Nominal Output Voltage	AC 230V
Nominal Output Frequency	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	
Voltage (nominal)	DC 40 - 60V
Max. Current (charge)	DC 90 A
Max. Power (charge)	DC 4600W ²
Max. Current (discharge)	DC 100A
Max. Power (discharge)	DC 4600W
Battery Type	Li-ion
Battery Depth of Discharge	90%
General Information	
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
Ingress Protection Rating	IP65
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	<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	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)
Storage Capacity	4 x 2.4kWh 4 x 3.55kWh
Battery System Model	US2000B US3000A/B ³
Maximum Capacity	28.4kWh ⁴
Nominal Voltage	DC 48V
Rated Current	DC 100A
Fan Specification	DC 48V / 0.13A x2
Protective Class	I
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	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
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	Includes 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
	AS/NZS 3000:2018
Designed with Installation Standards Considered	AS/NZS 5033:2014 (inc. Amd 1 & 2) AS/NZS 5139:2019



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¹ Max PV Input Power is determined by the appropriate selection of panels within the MPPT voltage and current range

² Dependant on number of batteries installed

³ Not compatible with US3000C, and cannot be made compatible in the future

⁴ Maximum capacity 14.2kWh with single cabinet, or 28.4kWh with optional expansion cabinet

⁵ Manufacturer's declared and tested Max Short Circuit Current (Isc Max)

The Smart 3-Phase Hybrid System



Redback's Smart 3-Phase Hybrid System is a robust hybrid solution designed for three-phase homes or light commercial installations.

The system combines a 10kVA solar inverter with two standard battery storage capacity options of either 9.6 or 14.2kWh and an option for an extended capacity of 19.2 or 28.4kWh. Site Manager allows installation of multiple systems at a single site to operate as a single system. The Smart 3-Phase Hybrid System also includes a pre-wired BoS and integrated isolators to ensure a fast and easy installation.



Image shown with extended battery cabinet BE14000-HV



9.6kWh, 14.2kWh,
19.2kWh or 28.4kWh
battery storage capacity



3-phase backup supply in
a power outage*



Streamlined
all-in-one design



Site Manager
functionality



Indoor or outdoor
installation



Easy monitoring app
and portal



Australian-supported
10-year warranty

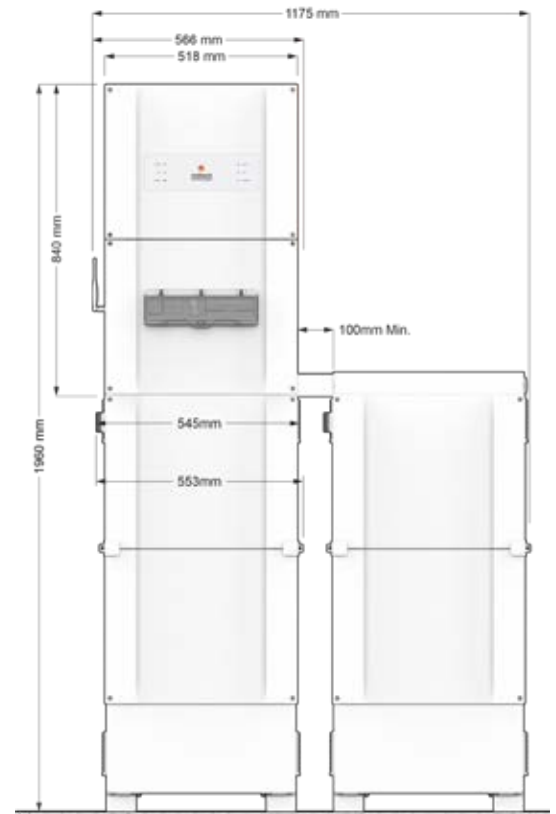
*When backup circuit is connected, and battery energy is available. Appliances selected at the time of install.

The Smart 3-Phase Hybrid System

Scan to Download
System Information Pack



Product Model	ST10000
PV Port	
Maximum Recommended PV Input Power ¹	16000Wp
Number of MPPTs	2
Strings per MPPT Input	1/2
MPPT Operating Voltage (range) ¹	DC 200 - 850V ²
Maximum Input Voltage (Vmax)	DC 1000V ²
Maximum Current (Imp) ¹	DC 12.5/22A
Short Circuit Current (Isc)	DC 17.5/36A ⁶
Grid Interactive Port	
Nominal Output Voltage	AC 400/380V
Nominal Output Frequency	50 Hz
Max. Output Current	AC 16.5A / phase
Rated Output Apparent Power	10000VA
Rated Input Current	AC 22.7 A/phase
Rated Input Apparent Power	15000VA
Power Factor (range)	0.8 lagging to 0.8 leading
Output Voltage THD	<3%
Backup Port	
Nominal Output Voltage	AC 380/400,3L/N/PE
Nominal Output Frequency	50 Hz
Rated Current	AC 16.5A / phase
Rated Active Power	AC 10000W
Rated Apparent Power	10000VA ⁵
Peak Apparent Power	16500VA (60 sec max)
Output Voltage THD	<3%
Battery Port	
Voltage (nominal)	DC 180 - 600V
Max. Current (charge)	DC 25 A
Max. Power (charge)	DC 10000W ³
Max. Current (discharge)	DC 25 A
Max. Power (discharge)	DC 10000W
Battery Type	Li-ion
Battery Depth of Discharge	90%
General Information	
Operating Temperature	-35°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	IP66
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	97.60%
Maximum Battery to Load Efficiency	97.50%
European Efficiency	96.80%
Physical Data	
Installed Weight	127-210kg
Material	Aluminium
Finish	Sealed and powder coated
Battery Enclosure Data	
Enclosure Model	BE14000-HV
Name	Smart Hybrid Battery Enclosure
Chemistry (label only)	
Number of Battery Units	4 or 8
Storage Capacity	N x 2.4kWh N x 3.55kWh
Battery System Model	RB-HVS-Nx48-50 RB-HVS-Nx48-74
Maximum Capacity	28.4kWh ⁴
Nominal Voltage	DC N X 48V
Rated Current	DC 25A
Fan Specification	DC 12V / 0.3A x2
Protective Class	I
Ingress Protection Rating	IP54
Material	Steel
Finish	Sealed and powder coated
Isolation Devices	
PV Port Isolator Utilisation Category	DC-PV2
Grid Interactive Port Isolator Rated Operational Current	40A
Backup Port Isolator Rated Operational Current	25A
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	Includes 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 AS/NZS 3000:2018 AS/NZS 5033:2014 (inc. Amd 1 & 2) AS/NZS 5139:2019



Designed with Installation Standards Considered

¹ Max PV Input Power is determined by the appropriate selection of panels within the MPPT voltage and current range

² 600 V maximum voltage for PV arrays on domestic dwellings N = number of battery modules

³ Dependant on number of batteries installed

⁴ Maximum capacity 14.2kWh with single cabinet, or 28.4kWh with optional expansion cabinet

⁵ 9.6kWh & 14.2kWh systems = 5000VA or 19.2kWh & 28.4kWh systems = 10000VA

⁶ Manufacturer's declared and tested Max Short Circuit Current (Isc Max)

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Backup power when the grid goes down

Redback's Home Battery Storage Solutions come with an inbuilt UPS (Uninterruptible Power Supply) **free of charge** so you can give your customers **peace of mind** when a blackout occurs. Switching over in just 10 milliseconds¹, they won't even notice a difference!

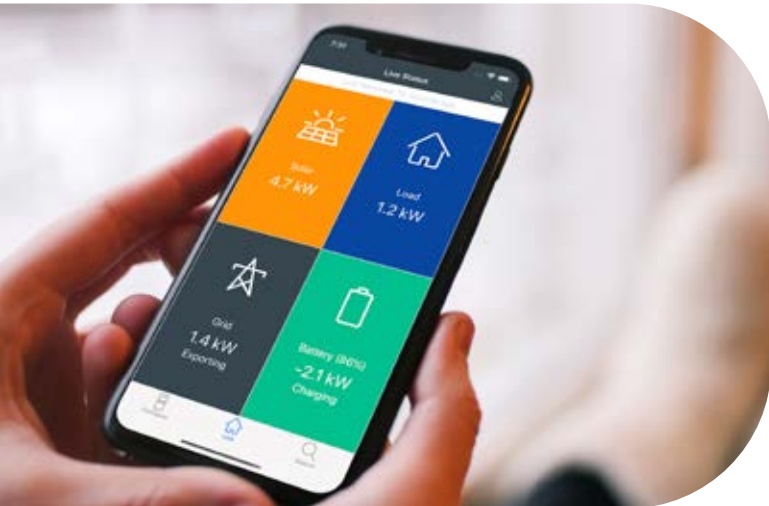
The backup circuit **maximum output capacity** varies depending on which Redback home battery storage solution you are installing.

Redback System		Max Output for Backup Circuit:
The Smart Hybrid System SH5000		4.6kVA continuous ²
The Smart 3-Phase Hybrid System ST10000	9.6kWh & 14.2kWh	5kVA continuous total power ² (up to 3.3kVA per phase)
	19.2kWh & 28.4kWh	10kVA continuous total power ² (up to 3.3kVA per phase)
The Smart Battery System SB7200		3.3kVA continuous ²
The Smart Battery System SB9600 & SB14200		4.5kVA continuous ²

¹ In regions where standards allow

² Max output power is dependent on the number of batteries, state of charge, and the available solar

Empowering you through data-driven technology



Redback Install

No matter what product in the Redback range you are installing, the Redback Install app's simple step-by-step guide will walk you through the commissioning process and give you the ability to track your progress. With live data updated every 5 seconds, you will be able to test configurations and complete your installation quickly and efficiently.*

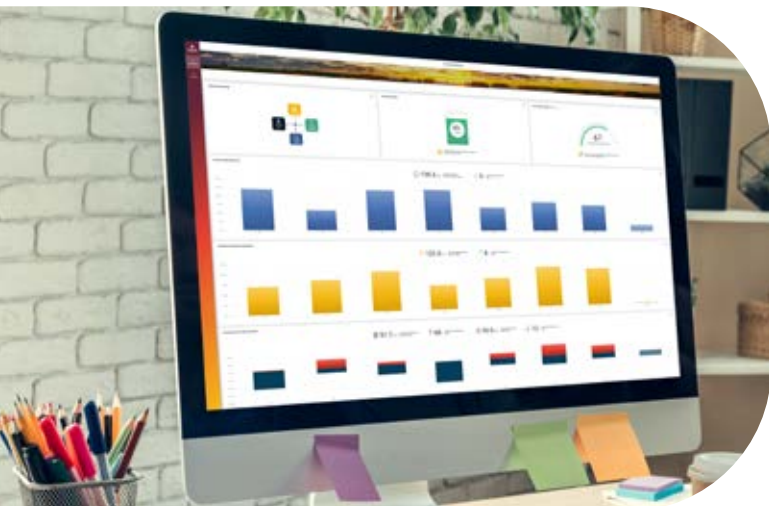
*Requires a Redback Portal Installer Login



Redback Partner Fleet Manager

You can actively monitor and manage your fleet of Redback Smart Storage Systems from one convenient location with the Redback Partner Fleet Manager. Here you can view your installations in a map or list format and apply filters to easily find customers.*

*Available for large fleets. Contact us for more information.



Redback Portal

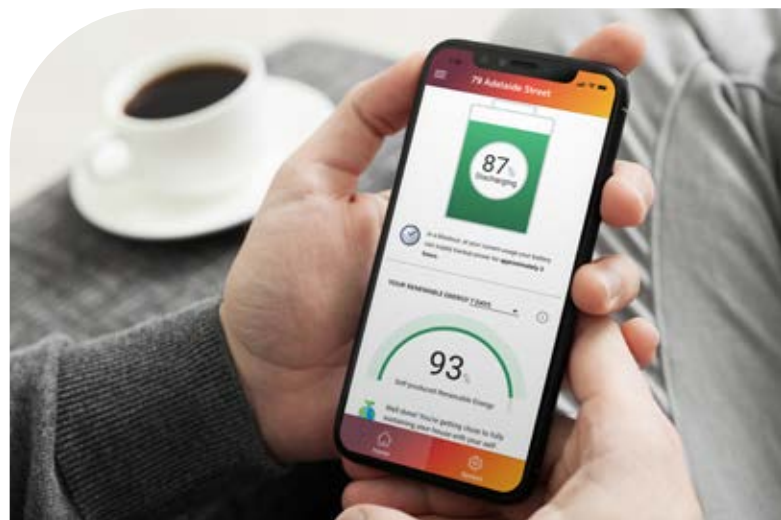
The Redback portal provides you and your customers with an intuitive dashboard that incorporates real time and analytical data that can be stored for up to two years.*

*Data will only be recorded and displayed if system is continuously connected to the Redback cloud via internet. Data is not stored on the device itself.

MyRedback

The MyRedback App allows your customers to monitor their systems both at home and on the go. Incorporating real time and historical data, they can have peace of mind knowing they have full visibility of their solar and/or battery. Customers can view their solar and battery at any time with the app's intuitive and easy to use design.*

*Data will be displayed if system is continuously connected to the Redback cloud via internet.



We've done the hard work so you don't have to

Smarter designs for faster, safer and easier installations



Solutions for every customer

Whether your customers are looking for solar, solar and battery for single and three-phase homes or adding battery storage to their existing solar system, we have the right solution to meet their needs.



Inverter and battery sizing options

We understand that one size does not fit all. That's why our inverters and home battery solutions come in different sizes, so you can choose what will best suit your customers.



Easy install

Our range of Redback systems come pre-wired and factory tested with plug and play capabilities to ensure your installation is as seamless as possible. No part weighs over 32kg making the modular, all-in-one design even easier for you to install.



Designed for Australian conditions

Redback's systems are designed and tested in Australia[^] to suit the harsh Australian climate, so you can feel confident installing them indoors, outdoors or in a garage.

[^]Certification conducted overseas in parallel with in-house testing in Australia



Evolving technology

Every Redback system can be updated remotely with new advancements as they become available, intelligently evolving to ensure they're always up to date*, and saving you the need to re-visit the site.

*Internet connection required for remote updates.



Fast and simple commissioning

Redback's intuitive installer app helps make the commissioning process fast and simple, allowing you to keep install costs down while still providing the best-in-class solutions for your customers.





At Redback Technologies, we want to ensure we give you all the skills and resources you need to make every Redback installation a success.

Installer and Sales Training

We offer free to attend web-based and face-to-face sales and installation training sessions* for every system in our Redback product range. We will teach you how to confidently sell, size, install and configure our systems, ensuring you have everything you need for a smooth installation process on-site.

Grow your business as a Redback Partner

We strive to build long-term relationships with our Redback Partners by supporting and assisting you to grow your solar and battery storage sales through our unique benefits including:

- Approved installer partner logo
- Free product, installation and sales installation training
- Exclusive online access to marketing collateral, brochures, imagery and much more
- Access to other Redback-specific third party offerings

**In-person training dependent on location.
Dates and availability subject to change.*

Find out how you can
join the Redback team



Redback Technologies Powering a Cleaner Tomorrow

📞 1300 240 182 ✉ info@redbacktech.com 🌐 redbacktech.com

