

Powering a Cleaner Tomorrow



Your Australian Choice for home solar and battery storage solutions



Australian owned, operated and designed



Local, Brisbane-based support



Australian-backed, 10-year warranties



Affordable solutions for every site



Redback Technologies: Your Australian Choice

Our affordable solar and battery storage solutions are designed in Australia and tested to endure the harshest Australian weather conditions, so you can feel confident installing in an outdoor location or in a garage.

Redback's systems are designed with our installers in mind. That is why our systems feature an all-in-one, modular design for easy installation. No part weighs over 32kg, making each component easy to lift and move.

We value how important a simple installation process is and we have the solutions available to ensure your Redback installations go as smoothly as possible. We offer both in-person* and online installation training for all our systems, as well as local, Australian technical support to assist you while you are on site.

As an Australian owned and operated company, we understand the value of being able to speak with someone local. We have partnership managers located across Australia and a team of Brisbane-based customer service professionals who are ready to assist you with any queries you may have.

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



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

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.



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.



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.



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.



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.



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 bestin-class solutions for your customers.



Introducing the Redback Technologies Smart Inverter Australian designed for Australian homes. The Redback Smart Inverter is designed for Australian households looking to invest in solar. Designed and tested in Australia, the single-phase grid-tied solar PV inverter series is affordable yet robust and designed to survive in harsh Australian outdoor conditions. Available in four sizes (5kVA, 6kVA, 8kVA & 10kVA), with a smart meter and Wi-Fi dongle coming standard at no extra cost.

The Smart Inverter

SI8000 / SI10000





Easy Monitoring





Indoor or Outdoor Installation

The Smart Inverter

Scan to Download System Information Pack



Smart Inverter

Product Model	SI5000	S16000	S18000	SI10000
PV Port				
Number of MPPTs	2		2	
Strings per MPPT Input	1/1		2/1	
MPPT Operating Voltage (range)	DC 70 - 540V		DC 70 - 540V	
Maximum Input Voltage (Vmax)	DC 550V		DC 550V	
Maximum Current (Imp)	DC 13/13A		DC 26/13A	
Short Circuit Current (Isc)	DC 15/15A		DC 30/15A	
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		
		Bluetooth for commissionin	g;	
0iti		WI-FI for remote access;		
Communications		Ethernet (Optional)	200)	
		LIE (Optional - available late 2	J22)	
Permete Assess		NFC Nob Portal: MyPadback App: Padback	r Install ann	
Remote Access		Supported	c install app	
Power/Energy Monitoring		Includes 1 x utility grade opergy met	r(a aaa,1)	
Power/Energy Monitoring		AS/NZS 4777 2:2020		
		IEC 62109-1:2010		
		IEC 62109 1.2010		
		IEC 62116:2014		
Certifications and Approvals		IEC 60529		
		EN 61000		
		RCM		
		CE		
Designed with Installation Standards Considered		AS/NZS 3000:2018		
Designed with installation standards Considered		AS/NZS 5033:2014 (inc. Amd 1	& 2)	

with In:



SI5000 & SI6000 Smart Inverter



SI8000 & SI10000 Smart Inverter

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



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





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

The Smart Battery System



The Smart Battery System

Product Model	SR7200	589600	SR14200
Grid Interactive Port	35/200	355000	3014200
Newinel Output Veltere	40.0001/	40.0001/	40.0001/
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 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%
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		To reale	
Maximum Efficiency		96.60%	
Physical Data		50.00%	
Installed Weight	120kg	16 5 kg	202kg
Motorial	Aluminium	Aluminium	Aluminium
Finish			
Pattery Englesure Data	Sealed and powder coated	Sealed and powder coated	Sealed and powder coated
Battery Eliciosure Data	0		
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
Isolation Devices			
Grid Interactive Port Isolator		50A	
Rated Operational Current			
Backup Port Isolator		324	
Rated Operational Current		324	
Battery Port Isolator		324	
Rated Operational Current		JZA	
Battery Cabinet Isolator		324	
Rated Operational Current		JZA	
Communications Ports and Protocols			
Relays	I	RJ45; 3x Digital I/O; +DC5V & GND	
User Interface			
Front Panel Display		Coloured LEDs	
Communications		Bluetooth for commissioning;	
Communications	٧	Ni-Fi or ethernet for remote access	
Remote Access	Web Po	rtal; MyRedback App; Redback Ins	tall app
Remote Firmware Updates		Supported	
Power/Energy Monitoring	1>	x utility grade energy meter (class	1)
Certifications and Approvals		AS/NZS 4777.2:2020 IEC 62109-1:2010 IEC 62109-2:2011 IEC 62116:2014 IEC 62040-1:2017 IEC 62040-1:2017 IEC 620477-1:2012 IEC 60529 EN 61000 RCM	
Designed with Installation Standards Considered	А	CE AS/NZS 3000:2018 (S/NZS 5033:2014 (inc. Amd 1 & 2) AS/NZS 5139:2019)



SB7200 Smart Battery System



SB9600 & SB14200 Smart Battery Systems





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

- 566mm -

mini -

1960 mm



Product Model	SH5000
PV Port	0
Strings per MPPTs	2
MPDT Operating Voltage (range)	I/ I DC 125 - 550V
Maximum Input Voltage (Vmax)	DC 580V
Maximum Current (Imp)	DC 11/11A
Short Circuit Current (Isc)	DC 13.8/13.8A
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 Content Rated Input Apparent Power	92001/4
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 Fower	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
Max. Current (discharge)	DC 100A
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	
Ingress Protection Rating	IP65
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 Efficiency	10 Years
Maximum Efficiency	97 60%
Maximum Battery to Load Efficiency	94.00%
European Efficiency	97.00%
Physical Data	
Installed Weight	132-203kg
Material	Aluminium
Finish Rettern Enclosure Date	Sealed and powder coated
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	US2000
	US3000
Naximum Capacity	28.4KWII^
Rated Current	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 Devices	Sealed and powder coated
PV Port Isolator Utilisation Category	
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	KJ45; 4X DIGITAI I/U; +DU5V & GND
Front Panel Display	Coloured LEDs
	Bluetooth for commissioning:
Communications	Wi-Fi or ethernet for remote access
Remote Access	Web Portal; MyRedback App; Redback Install app
Remote Firmware Updates Power/Energy Monitoring	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
Certifications and Approvals	IEC 62116:2014 IEC 62040-1:2017 IEC 62477-1:2012 IEC 60529 EN 61000 RCM
Designed with Installation Standards Considered	ل AS/NZS 3000:2018 AS/NZS 5033:2014 (inc. Amd 1 & 2) AS/NZS 5139:2019



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

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. The Smart 3-Phase Hybrid System also includes a pre-wired BoS and integrated isolators to ensure a fast and easy installation.



redback technologies

9.6kWh, 14.2kWh, 19.2kWh or 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 3-Phase Hybrid System

ST10000

2/1

DC 200 - 850V* DC 1000V*

DC 12.5/22A DC 15.2/27.6A

AC 400/380V

50 Hz AC 16.5A / phase

10000VA

AC 22.7 A/phase 15000VA

0.8 lagging to 0.8 leading <3%

AC 230V

50 Hz AC 16.5A / phase

AC 10000W 10000VA

6500VA (60 sec max) <3%

> DC 180 - 600V DC 25 A DC 10000W

DC 25 A

DC 10000W

Li-ion

90%

-35°C to 60°C

0 - 95%

0 - 4000m

I IP66

OVC III

OVC II Active Frequency Drift Non-isolated

China DRM 0

<15W

<30 dBA

10 Years

97.60% 97.50%

96.80%

127-210kg

Aluminium

Sealed and powder coated

BE14000-HV

Smart Hybrid Battery Enclosure

4 or 8 N x 2.4kWh

N x 3.55kWh RB-HVS-Nx48-50

RB-HVS-Nx48-74 28.4kWh**

DC N X 48V

DC 25A

DC 12V / 0.3A x2

IP54

Steel

DC-PV2

40A

25A

32A

32A

nd powder coated

v 10°C and over 45°C

Scan to Download System Information Pack



Product Model PV Port Number of MPPTs Strings per MPPT Input MPPT Operating Voltage (range) Maximum Input Voltage (Vmax) Maximum Current (Imp) Short Circuit Current (Isc) Grid Interactive Por 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 Voltage Nominal Output Frequency Rated Current Rated Active Power Rated Apparent Power Peak Apparent Power Output Voltage THD **Battery Port** Voltage (nominal) Max. Current (charge) Max. Power (charge) Max. Current (discharge) Max. Power (charge) Battery Type Battery Depth of Discharge General Informatio Operating Temperature Operating Temperature Derated Output **Operating Relative Humidity** Operating Altitude Protective Class Ingress Protection Rating AC Overvoltage Categor 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 Material Finish **Battery Enclosure Data** Enclosure Model Name Chemistry (label only) Number of Battery Units Storage Capacity Battery System Model Maximum Capacity Nominal Voltage Rated Current Fan Specification Protective Class Ingress Protection Rating Material Finish **Isolation Devices** PV Port Isolator Utilisation Category Grid Interactive Port Isolator Rated Operational Current Backup Port Isolator Rated Operational Current Battery Port Isolator Rated Operational Current Battery Cabinet Isolator Rated Operational Current unications Ports and Protocols Relays User Interface Front Panel Display Communications Remote Access Remote Firmware Updates Power/Energy Monitoring **Certifications and Approvals Designed with Installation**

RJ45; 3x Digital I/O; +DC5V & GND Coloured LEDs Bluetooth for commissioning; Wi-Fi 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 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





*600 V maximum voltage for PV arranys on domestic dwellings N = number of battery modules **Maximum capacity 14.2kWh with single cabinet, or 28.4kWh with optional expansion cabinet.

Standards Considered

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 milliseconds*, 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**
The Smart 3-Phase Hybrid System ST10000	10kVA continuous total power** (3.3kW per phase)
The Smart Battery System SB7200	3.3kVA continuous**
The Smart Battery System SB9600 & SB14200	4.5kVA continuous**



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-bystep 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





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, battery and home. 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.



Redback Installer Training

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

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

Visit our website at redbacktech.com to view and sign up for our upcoming installer training sessions.

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





Grow your business with **Redback Partner Connect**

The Redback Partner Connect program aims to build a long-term relationship with your business. We will support and assist you to grow your solar and battery storage sales through 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 •
- A tiered incentive and co-marketing fund program that grows with your sales

Powering a Cleaner Tomorrow

- Priority support for our platinum partners
- Access to other Redback-specific third party offerings •

Find out how you can



join the Redback team



🕻 1300 240 182 🛛 info@redbacktech.com 🌐 redbacktech.com

Redback Technologies