Installation is a breeze.



Redback's easy to install home battery solutions - the smartest way to get the job done.



Designed in Australia for Australian conditions



All-in-one streamlined design



Local, Brisbane based support



AC Coupled single-phase systems, DC coupled single and three-phase systems



No part heavier than 32kg



Indoor/outdoor installations



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

Smarter designs for faster, safer and easier installations



Home battery solutions for every customer

Redback Technologies offers a home battery storage solution for every household whether your customer's are looking for a new single or three-phase installation, or they wish to add battery storage to an existing solar system.



Battery Storage Sizing Options

At Redback Technolgies, we understand that one size does not fit all.

That's why our home battery solutions come in different sizes so you can choose what will best suit your customers.



Easy Install

Our range of home battery solutions make installation easy thanks to their modular, all-in-one design.

Systems also come pre-wired and are factory tested to ensure a quick installation.



Install with Confidence

Redback's systems are designed in Australia to suit the harsh Australian climate so you can feel confident installing them in an outdoor location or in a garage.

Designed with our installers in mind, each system is made with high-quality materials with no component weighing over 32kg.



Uninterruptible Power Supply

Even when the grid goes down, your customers' lights and essential appliances will stay on*. Switching over in just 10 milliseconds, your customers won't even notice a power outage.

* When backup circuit is connected and battery energy is available. Rate as EPS where regulations require.



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.



Empowering you through data-driven technology

RedbackINSTALL

No matter what product in the Redback range you are installing, the RedbackINSTALL 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









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.*

 $\ensuremath{^*}$ 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.



Management and second to the s

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.

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

Find out how you can join the Redback team at redbacktech.com/installers



Why Redback?

Redback Technologies is a local Australian company with systems specifically designed to meet the harsh Australian climate.

We design our systems with our installers in mind and make them easy to lift and install. Redback Technologies also provides local support, in depth training on all our systems, and local points of contact for each state.

^{*} Terms and Conditions Apply.

^{**} If available and applicable.



Smart Hybrid Systems

Intelligent System

Our unique software ensures the best use of your energy by controlling the inverters response, optimising the battery and directly controlling loads.

Easy Installation

Our pre-wired balance of system and plug and play battery enclosure allows for fast and low-cost installation, including approved DC isolator.

Uninterruptible Power Supply

Experience near instantaneous and automatic back up to selected circuits* when the mains power fails.

* When backup circuit is connected and battery energy is available. Rate as EPS where regulations require.

Indoor/Outdoor Rated

Our systems are IP65 rated and designed for Australian conditions.

Smart Monitoring

Our easy to use portal and apps allow monitoring of PV generation, battery charge levels & household consumption from one convenient location.



Less than 3.0%

25A MCB

Integrated

	Smart Hybrid System SH5000 & BE14000	Smart Three Phase System
SOLAR ARRAY	3H3000 & BE14000	3110000 & BE14000-HV
		_
lumber of MPPT inputs	2	2
trings per MPPT input	1/1	1/2
Maximum Recommended PV	6.6kW	13kW
laximum DC open circuit voltage	580V DC	600V DC
1PPT operating range	125 - 550V 125V DC	200 - 550V 180V DC
tarting voltage		
faximum DC input current (for each solar array input)	11A DC	12.5/22A
faximum short current (for each solar array input)	13.8/13.8A	15.2/27.6A
iolar array switch rating	1000V DC MC4	1100V DC MC4
nput connectors		
Residual current and insulation monitoring	Integ	grated
ITILITY INTERFACE		
Nominal AC voltage/frequency	230V AC, 50Hz	400V, 50Hz
Continuous AC power rating	5kVA AC	10kVA AC (derate over 45°C ambient)
laximum AC power to utility grid	5kVA AC (derated over 45°C ambient)	11kVA AC (derate over 45°C ambient)
aximum AC current to utility grid	21.7A AC	16.5A
laximum AC current from utility grid	40A AC	22.7A
ominal AC output range	230/240V 50Hz	400V AC 50Hz
urrent THD	Less than 1.5%	Less than 3%
ower factor		lagging (adjustable)
C overvoltage category	Category III	
nti-islanding and AC overcurrent protection		grated
nverter topology	Transformerless (with HF tra	nsformer isolation for battery)
ATTERY INTERFACE		
ominal DC voltage	48V DC	180-600V DC
attery compatibility	PylonTech US2000 & US3000	PylonTech H48050 or H48074
faximum charging and discharge power (from battery)	4.6kW DC*	10kW DC*
1aximum charging current	85A DC	25A DC
laximum discharging current	100A DC	25A DC
attery charging method	Self-adapt	tion to BMS
lattery disconnect	Integrated 2 pole DC breaker 125A DC per pole	2 pole DC isolator 32A DC per pole
CONTROL INTERFACE		
ignal relay outputs	4	3
PRM modes	0-8	0
emote firmware updates	Supp	ported
elays	2 x 10A Omron	Optional
BACK UP LOADS OUTPUT		·
ominal AC voltage/frequency	230V AC, 50Hz, L/N/PE	400V AC, 50Hz, 3L/N/PE
Continuous AC power rating	4.6kVA AC (derate over 45°C ambient)	10kVA AC (derate over 45°C ambient)
laximum AC power rating	9.6kVA AC (derate over 45 C ambient)	16.5kVA AC (60 seconds maximum)
laximum AC current	21.7A	16.5A
INAMINAMI AS CANTON	21./ A	10.54

Less than 4.5% (with linear loads)

25A MCB

Back-up loads AC disconnect / isolator

Voltage THD

EFFICIENCY

ELLICITION		
Maximum efficiency (to utility grid)		97.60%
European averaged efficiency	97.00%	96.80%
Maximum power point tracking efficiency		99.90%
Efficiency (powering loads from battery)	90% typical	97.5% typical
Standby losses	Ŀ	ess than 8W AC

BATTERY ENCLOSURE

Compatible Smart Hybrid System	SH5000	ST10000
Number of battery units	2-4 battery modules	4 battery modules
Storage capacity	Standard: 4.8-14.2kWh Expanded: 19.2-28.4kWh	Standard: 9.6 / 14.2kWh Expanded: 19.2 / 28.4kWh
Battery voltage	48V DC nominal	192V DC nominal / 384V DC expanded
Battery chemistry	Lithium-ion Phospate	

CABLE SPECIFICATION

Access type

Battery cable rating	4 x 65A	25A
Battery cable type	8 AWG (8	3.36mm2)
Battery cable termination (battery enclosure)	Surlok Amphe	nol connector
Battery cable termination (inverter)	Surlok Amphe	nol connector
RMS cable type	Supr	nlied

Removable front panels

30cm³/min

320cm³/min

VENTILATION SPECIFICATION

Ventilation type	Passive and active cooling	
Ventilation control	Smart temperature control	
Number of fans	2	
Fan power	48V DC / 0.04A per fan	12V DC / 0.13A per fan
Fan activation temperature	Variable depending or	n charge/discharge
Incoming ventilation aperture	72cm² with wa	shable filter
Outgoing ventilation aporture	72cm² with wa	chable filter

Passive airflow rate Active airflow rate GENERAL DATA

Dimensions (W x H x D)

	79kg (Installed, excluding batteries)	77kg (Installed, excluding batteries)
Mounting and weight	175kg (Installed, with 4x US2000)	173kg (Installed, with 4x H48050)
	207kg (Installed, with 4x US3000)	205kg (Installed, with 4x H48074)

		,
Ambient temperature range - Inverter & BoS	-25°C to 60°C	-35°C to 60°C
	Batteries derate below 10°C and over 40°C	Batteries derate below 10°C and over 40°C

	batteries derate below 10°C and over 40°C	batteries derate below 10°C and over 40°C
Ambient temperature range - Battery Enclosure	Based on batte	ry specification
Relative humidity	0 to	95%
DC overcurrent category	Cate	gory II
Moisture location category	4K	(4H
Environmental protection rating - Hybrid Inverter & BOS	IP65	IP66
Environmental protection rating - Battery Enclosure	IP	54

Environmental protection rating - Battery Enclosure	IP54
Operating Altitude	<4000m
Inverter Cooling	Natural convection
Battery Enclosure Cooling	Active Cooling
Noise emissions	Loss than 2EdD

Buttery Enclosure cooling	Active cooming	
Noise emissions	Less than 25dB	Less than 30dB
Warranty	10 Years	
Construction	Battery Cabinet: Steel Cha	ssis

Construction	Battery Cabinet: Steel Chassis Inverter, BoS and Covers: Aluminum
Finish	Sealed and powder coated
Supply	Ships pre-assembled (excluding batteries)

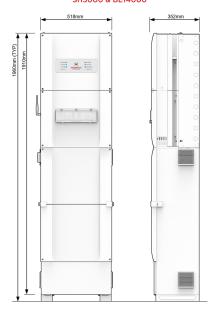
Supply Ships pre-assembled (excluding batteries) Maintenance Externally serviceable dust filters USER INTERFACE

Front panel display Coded, coloured LEDs

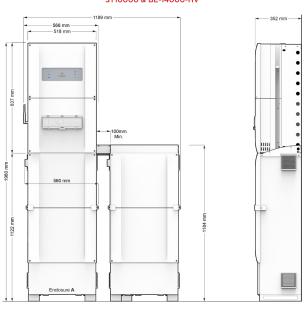
Communications	Bluetooth for onboarding, Wi-Fi or Ethernet for phone and web monitoring

Smartphone App	Android 7 or higher; IOS 12.0 or higher
Portal	Web based; platform independent
Power/energy monitoring	Includes 1 x utility grade mater (class 1)

Smart Hybrid System SH5000 & BE14000



Smart Three Phase System ST10000 & BE-14000-HV





Smart Battery System

Upgrade your PV System & Save

Get the most from your self-generated energy. Store your excess energy for use at night.

Uninterruptible Power Supply*

Experience near instantaneous back-up with your UPS functionality.

* When backup circuit is connected and battery energy is available. Rate as EPS where regulations require.

Pre-wired for Quick Install

Bringing the unique Redback pre-wired design to an AC coupled battery to ensure ease of install.

Indoor/Outdoor Rated

Our systems are IP54 rated and designed for Australian conditions.



SB7200

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Utility Grid Max. Export Power	3300W
Utility Grid Max. Export Current	14.3A
Utility Grid Max. Input Apparent Power	7000VA
Utility Grid Max. Input Current	30.4A
Utility Grid Nominal Output Voltage	230V
Utility Grid Nominal Output Frequency	50Hz
Utility Grid Power Factor	1.0 (unity)
Utility Grid Power Factor	0.8 lagging to 0.8 leading
Utility Grid Inverter Isolation	Non-isolated

BACKUP LOADS OUTPUT

Backup Continuous AC Output Power	3300W
Backup Max. AC Output Power	3300VA
Backup Max. AC Output Current	14.3A
Backup AC Output Voltage THD	< 3%
Backup/Battery Isolation AC Output	Non-isolated

BATTERY INTERFACE

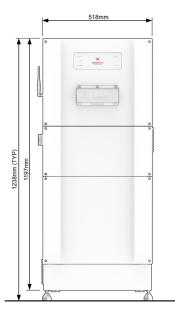
Battery Type	Li-lon
Battery Charging Method	BMS Controlled
Battery Voltage Range	85 to 460V
Battery Max. Charging Power	3600W
Battery Max. Charging Current	25A
Battery Max. Discharging Power	3300W
Battery Max. Discharging Current	25A

Communications

Smartphone App

Power/Energy Monitoring

GENERAL DATA	
Dimensions (w x h x d)	556 x 1238 x 370 mm
Installed Weight	130kg
Noise Emissions	Less than 30dB
Standby Losses	Less than 8W AC
Operating Temperature Range	-20°C to 60°C Derates below 10°C and above 40°C
Allowable Relative Humidity	0 - 100%
Protective Class	Class I
Enviromental Protection Rating	IP54
Operation Altitude	0 - 4000m
AC Overvoltage Category	Category III
DC Overvoltage Category	Category II
Moisture Location Category	4K4H
External Enviroment Pollution Degree	Grade 1, 2 and 3
Grid Connection Standard	AS 4777.2:2015
Safety Regulation	IEC/EN 62477-1, AS 62040.1.1
Compatible Batteries	PylonTech H48050 (2.4kWh)
Battery Controller	RB600-AC
USER INTERFACE	
Front Panel Display	Coded, coloured LEDs





CERTIFICATIONS

APPROVALS
RCM

AS3000:2018 AS/NZS 4777.2:2015 AS/NZS 5033:2014 Amd. 1 & Amd. 2 AS/NZS 5139:2019

IEC 62109-1:1.0:2010 IEC 62109-2:1.0:2011 IEC 62040-1:2.0:2017 IEC 62116:2.0

Bluetooth for onboarding, Wi-Fi or Ethernet for phone

and web monitoring Android 7 or higher; iOS 12.0 or higher

Web based; platform independent

Includes 1 x utility grade meter (class 1)

CE Mark (LVD, EMC, RoHS Directives)