



BlackMax

OFF-GRID POWER



Designed to power sheds, weekenders and houses!

BlackMax Solar Power Systems are the ideal solution if you want to power a shed, weekender or house that is not connected to grid power.

Whether you live in a rural location without grid power access, or simply want a more sustainable lifestyle, our BlackMax Solar Power System provides the perfect solution.

The BlackMax is built, tested and shipped as a complete system, including solar panels if required. On arrival, your system is ready to install. What makes this solution even better? The government will chip in for the cost of your panels when you use a local CEC certified electrician to install it as an off-grid system!



RedEarth
ENERGY STORAGE



**AUSTRALIAN MADE
AND OWNED**



Off-Grid Power

ALL-IN-ONE STANDALONE POWER SYSTEM

Our BlackMax Solar Systems are designed for applications with a daily power use from as little as 2kWh/day to more than 10kWh/day. We've done all the groundwork for you and can also supply the solar panels, hardware, cabling, mounting equipment for tin roofs and electronics are expertly matched and assembled saving you precious time.

ADVANTAGES

High Quality

Fully engineered, factory assembled and tested in Brisbane.

Local Factory Support Provided

Visitors welcome! Come see us at our RedEarth Factory!

Qualifies for Government Assistance

The BlackMax is eligible for STC Solar Panel incentives provided you use a CEC-approved installer, CEC-approved panels and not connected to the grid.

Easy to Install Battery System (<3 hours)

All-in-one system! Ensure it is installed on a dry surface in the shade, by your off-grid certified installer.

Australian Made

RedEarth prides itself being Australian made and owned, supporting the local economy and ensuring a quality product.

Safety

BlackMax is a factory assembled & tested system that meets Australian Standards.

Warranty & Support

Our systems are fully backed with our 5-year repair/replacement warranty.

*T&C's apply.



Solar Input	Connect up to 6.5kW of Solar panels to the MPPT (max. 450VDC 22 A single input VDC/22A)
Power Output	5000W peak 10000 VA Surge
Battery Options	3.3kWh - 12.3kWh
Dimensions	102H x 75W x 50D (cm)
Weight (max.)	42.5 per battery
Battery Voltage	48VDC nom.
Electrical Connection	<ul style="list-style-type: none"> 15A output plug (<3.5kW) 15A input plug (for generator) Option to hard-wire to internal terminal block





HoneyBadger

OFF-GRID POWER



Designed for Country Homes and Small Enterprises!

The HoneyBadger is a reliable and robust off-grid power system. It is quick to install and can be combined with solar panels and a backup generator to keep your power coming.

It comes in two power ratings and it suits customers who require up to 10kW of power and use up to 40kWh a day of electricity.

Being Australian designed and built, you can rely on the ongoing support from our Brisbane factory.

4G remote monitoring from RedEarth can be included to provide additional piece of mind.



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Off-Grid Power

ALL-IN-ONE STANDALONE POWER SYSTEM

Our HoneyBadger is a proven standalone battery system that is supplied as a factory tested and ready to run system. The IP43 rated enclosure is suitable for indoor as well as outdoor installation. It is lockable, and made primarily of powder-coated aluminium for additional weather resistance.

ADVANTAGES

High Quality

Fully engineered, factory assembled and tested in Brisbane. Field proven, and widely known Victron inverters are used to minimise downtime and make it easy for installers.

Backup Generator

The HoneyBadger can auto start a backup generator or turn on a signal light if only a manual start generator is available.

Local factory support provided

RedEarth's factory is in Brisbane - visitors welcome!

Qualifies for current government grants and loans

The HoneyBadger is eligible for STC Solar Panel incentives, if you use CEC-approved solar panels and a CEC-approved installer and installed in an off-grid application.

Choice of battery size

Up to 8 lithium batteries can be installed
(8 x 4.1 kWh = 32.8 kWh maximum)

Easy to install battery system (<3 hours)

All-in-one system - pre-wired connection for PV panels and the backup generator. Place it in a covered area outside on concrete pavers or slab, no need to clutter the garage.

Remote monitoring

With mobile phone coverage, the system can be monitored on your mobile device. Continuous monitoring service is included from RedEarth with our industrial 4G solution.

Safety

HoneyBadger is a factory assembled & tested system that meets Australian Standards.

Warranty & Support

RedEarth's systems are backed by a 10-year repair/replacement warranty with monitoring. Support is available directly from our Brisbane factory.

*T&C's apply



Power Output	5000VA continuous (@ 25° C)	10000VA continuous (@ 25° C)
	10000W peak power	20000W peak power
Solar Input	Max. 11.6kW PV panels (5.8 each MPPT) Max. 250Vdc PV string voltage	
Battery Options	12.3kWh to 32.8kWh	
Dimensions	92L x 65W x 168H (cm)	
Weight (max.)	185kg without batteries + 41kg per battery	
Electrical Connection	<ul style="list-style-type: none"> Hard-wired to the local switch board 10A power point on the side of enclosure for AUX loads Backup generator hard-wired directly to the HoneyBadger 	
Monitoring	<ul style="list-style-type: none"> RedEarth monitoring system included with 4G SIM Customer monitoring on mobile device 	

Contact



DropBear

ON-GRID/OFF-GRID POWER



RedEarth
ENERGY STORAGE

Designed for Country Homes and Small to Large Enterprises!

The DropBear is an all-in-one power system for your home. Just plug in the solar panels and a generator (or the grid) for uninterrupted power.

RedEarth's DropBear can be installed in any sheltered area. It can be monitored by the customer and optionally by RedEarth to ensure continuous operation. It uses the highest quality components that are easily serviced anywhere in Australia.

RedEarth's DropBear is a proven standalone battery solution that manages multiple power sources, loads and batteries to optimise power generation, storage and use in on and off-grid situations.



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On-Grid/Off-Grid Residential and Commercial Power

A HIGHLY DEPENDABLE SOLUTION

Our DropBear System is a proven standalone battery system that is supplied as a factory tested and ready to run system. The enclosure is suitable for installation in or outdoors in a sheltered area. It is lockable, and made mostly of powder-coated aluminium for additional weather resistance.

ADVANTAGES

High Quality

Fully engineered, factory assembled and tested in Brisbane. Field proven, and widely known Selectronic and Fronius inverters are used to minimise downtime and make it easy for installers.

Backup Generator

The DropBear can auto start a backup generator or turn on a signal light if only a manual start generator is available.

Local factory support provided

RedEarth's factory is in Brisbane – visitors welcome!

Qualifies for current government grants and loans

The DropBear is eligible for STC Solar Panel incentives, if you use CEC-approved solar panels and a CEC-approved installer.

Easy to Install battery system (<3 hours)

All-in-one system - pre-wired connection for PV panels and the backup generator. Place it in a covered area outside on concrete pavers or slab, no need to clutter the garage.

Remote monitoring

With mobile phone coverage, the system can be monitored on your mobile device.

Continuous monitoring service is available from RedEarth with our industrial 4G solution.

Safety

DropBear is a factory assembled & tested system that meets Australian Standards. It is AS4777 approved and can be used in on-grid as well as off-grid installations.

Warranty & Support

RedEarth's systems are backed by a 10-year repair/replacement warranty with monitoring. Support is available directly from our Brisbane factory.

*T&C's apply



Power Output	Continuous 7.5kW, maximum 18.0kW (30 seconds)
Solar Input	Connect up to 19kW of solar panels, by adding an extra Fronius inverter
Battery Options	16.4kWh - 57.4kWh
Dimensions	655D x 1560W x 2025H (mm)
Weight (max.)	250kg without batteries
Battery Voltage	48VDC nom.
Electrical Connection	Hard-wired with a by-pass switch and generator/grid connection to terminals
Monitoring	<ul style="list-style-type: none"> RedEarth monitoring system with 4G SIM option Customer monitoring on mobile device

Contact





SunRise Mini

HOME BATTERY



Store your excess solar power for use at night!

RedEarth's SunRise Mini is an Australian-made outdoor-rated home battery energy storage system that stores your excess solar electricity for use from sunset until sunrise.

- No more bill shock! Use your own solar power at night and reduce your power bills.
- Low entry price! Start small and add extra batteries later as your needs grow, and your budget allows (genuinely battery ready!). Up to 12.3kWh.
- No more blackouts! Includes back-up power capability in case of a grid power failure.
- Retrofit to your existing solar system with ease.
- Qualifies for current government loans.



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Retrofit/hybrid residential battery storage

A TRULY SCALABLE SOLUTION

Our SunRise Mini is an all-in-one energy storage solution that is pre-wired with all AC, DC and PV cables, switchgear, EPS contactor, and batteries to make installation quick and trouble-free. Just run cables from the solar arrays and switch board and connect to the pre-labelled terminals inside the SunRise system.

ADVANTAGES

High quality

Fully engineered, factory assembled and tested in Brisbane. Highest quality lithium iron phosphate (LFP) battery modules.

Local factory support provided

Visitors welcome! Come see us at our factory in Darra, Brisbane.

Certification

Meets Australian standards AS4777.2, IEC62109-1/2 and AS60950.1.

Choice of battery size

Up to 12.3kWh capacity. A larger battery is especially valuable in areas with regular power outages.



Easy to install battery system (<3 hours)

All-in-one system, plug and play connection to PV panels and the grid. Place it on a concrete slab or mount on a wall using standard brackets. Place it outside, round the back with the hot water and aircons; no need to clutter the garage.

Remote monitoring

With an internet connection the system is remotely monitored on your mobile device.

Safety

SunRise is designed so that the batteries are in the safest environment when installed. It is supplied pre-wired and fully tested in a secure temperature controlled enclosure.

Warranty and support

SunRise Mini is backed with our 10-year repair/replacement warranty. Our monitoring and engineering team remotely monitors and supports your system from our office in Brisbane.

*T&Cs apply

Models	SRM-100, SRM-104, SRM-108, SRM-112, SRM-503, SRM-506
Solar input	Connect up to 6.6kW of Solar panels to two MPPTs
Power output	5kW
Backup power	3kW (during grid outage) 5kW with solar panels during the day
Battery options	4.1kWh to 12.3kWh RedEarth Troppo batteries or pylontech batteries
Dimensions	104H x 70W x 54D (cm)
Weight (max)	61kg + 42kg per Troppo battery (or 32kg per US3000)
Unit	IP44 aluminium chassis
Electrical connection	Hard wired via built-in EPS transfer switch
Monitoring	<ul style="list-style-type: none"> RedEarth monitoring system included with 4G SIM Customer monitoring on mobile device

Contact



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SunRise Maxi

HOME BATTERY



Store your excess solar power for use at night!

RedEarth's SunRise Maxi is an Australian-made outdoor-rated home battery energy storage system that stores your excess solar electricity for use from sunset until sunrise.

- No more bill shock! Use your own solar power at night and reduce your power bills.
- Low entry price! Start small and add extra batteries later as your needs grow, and your budget allows (genuinely battery ready!).
- No more blackouts! Includes back-up power capability in case of a grid power failure.
- Retrofit to your existing solar system with ease.
- Qualifies for current government rebates and loans.



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Retrofit/hybrid residential battery storage

A TRULY SCALABLE SOLUTION

Our SunRise Maxi is an all-in-one energy storage solution that is pre-wired with all AC, DC, and PV cables, switchgear, EPS contactor and batteries to make installation rapid and trouble free. Just run cables from the solar arrays and switchboard and connect to the pre-labelled terminals inside the Sunrise Maxi.

ADVANTAGES

High quality

Fully engineered, factory built and tested in Brisbane. Highest quality LFP battery modules.

Local factory support provided

Visitors welcome! Come see us at our factory in Darra, Brisbane.

Certification

Meets Australian standards AS4777.2, IEC62109-1/2 and AS60950.1.

Choice of battery size

From 4.1kWh to 24.6kWh capacity. A larger battery is especially valuable in areas with regular power outages.

Easy to install battery system (<3 hours)

All-in-one system, plug and play connection to PV panels and the grid. Place it on a concrete slab or mount on a wall using aircon brackets. Place it outside, round the back with the hot water and aircons; no need to clutter the garage.

Remote monitoring

With an internet connection the system can be remotely monitored on your mobile device.

Continuous remote monitoring service available from RedEarth with our industrial 4G solution.

Safety

SunRise is designed so that the batteries are in the safest environment when installed. It is supplied pre-wired and fully tested in a secure temperature controlled enclosure.

Warranty and support

SunRise Maxi is backed by our 10-year repair/replacement warranty. Our monitoring and engineering team remotely monitors and supports your system from our office in Brisbane.

*T&C's apply



Models	SRS-100, SRS-104, SRS-108, SRS-112, SRS-116, SRS-120, SRS-124, SRS-503, SRS-506, SRS-509, SRS-512, SRS-518
Solar input	Connect up to 6.6kW of solar panels to two MPPTs
Power output	5kW
Backup power	3kW (during grid outage) 5kW with solar panels during the day
Battery options	4.1kWh to 24.6kWh RedEarth Troppo batteries or pylontech batteries
Dimensions	104H x 97W x 54D (cm)
Weight (max)	87kg + 42.5kg per Troppo battery or 32kg per US3000
Unit	IP44 aluminium chassis
Electrical connection	Hard wired via built-in EPS transfer switch
Monitoring	<ul style="list-style-type: none"> RedEarth monitoring system included with 4G SIM Customer monitoring on mobile device

Contact



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SunRise 3 Phase HOME BATTERY



Store your excess solar power for use at night

RedEarth's SunRise 3 Phase is an Australian-made outdoor-rated home battery energy storage system that stores your excess solar electricity for use from sunset until sunrise.

- No more bill shock! Use your own solar power at night and reduce your power bills.
- Low entry price! Start small and add extra batteries later as your needs grow, and your budget allows (genuinely battery ready!).
- No more blackouts! Includes back-up power capability in case of a grid power failure.
- Retrofit to your existing solar system with ease.
- Qualifies for current government rebates and loans.



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Retrofit/hybrid residential battery storage

A TRULY SCALABLE SOLUTION

Our SunRise 3 Phase Battery System is an all-in-one energy storage solution that is pre-wired with all AC, DC, and PV cables, switchgear, EPS contactor and batteries to make installation rapid and trouble free. Just run cables from the solar arrays and switch board and connect to the pre-labelled terminals inside the SunRise home battery system..

ADVANTAGES

High quality

Fully engineered, factory assembled and tested in Brisbane. Highest quality lithium iron phosphate (LFP) battery modules.

Local factory support provided

Visitors welcome! Come see us at our RedEarth factory!

Certification

Meets Australian standards AS4777.2, IEC62109-1/2 and AS60950.1.

Choice of battery size

From 0 to 32kWh capacity (that's more than two Teslas worth!) A larger battery is especially valuable in areas with regular power outages.

If no battery is installed yet, then SunRise 3 Phase operates with solar panels only (no backup function), however batteries can be added in under 20 minutes.

Easy to install battery system (<3 hours)

All-in-one system, plug and play connection to PV panels and the grid. Place it on a concrete slab or mount on a wall using standard brackets. Place it outside, around the back with the hot water and aircons; no need to clutter the garage.

Remote monitoring

With an internet connection the system can be remotely monitored on your mobile device.

Continuous remote monitoring service available from RedEarth with our industrial 4G solution.

Safety

SunRise 3 Phase is designed so that the batteries are in the safest environment when installed. It is supplied pre-wired and fully tested in a secure temperature controlled enclosure.

Warranty and support

Our SunRise 3 Phase systems are fully backed with our 10-year repair/replacement warranty. Our monitoring and engineering team provides remote monitoring and support from our Brisbane office.



Models	SRS-300, SRS-318, SRS-321, SRS-325, SRS-328, SRS-332
Solar input	Connect up to 15kW of solar panels to two MPPTs
Power output	10kW
Backup power	Between 6kW and 10kW with 5 or more batteries
Battery options	17.7kWh to 32 kWh Lithium ion battery modules
Dimensions	105H x 132W x 54D (cm)
Weight (max)	162kg + 32kg per additional battery
Unit	IP44 aluminium chassis
Electrical connection	Hard wired to terminal block
Monitoring	<ul style="list-style-type: none"> RedEarth monitoring system included with 4G SIM Customer monitoring on mobile device

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Troppo

LFP 4841



RedEarth's Troppo is an Australian made Lithium Ferro Phosphate battery built for Australian conditions. Troppo comprises of new more energy dense Lithium Ferro Phosphate (LFP) cells which is the safest lithium chemistry available. It utilises a self-managed Battery Management System (BMS), accessible 63A DC dual pole On/Off switch, overcurrent protection device and information and odometer display. Delivering safe, highly efficient, and cost-effective service over its lifetime in both on and off-grid installations.

Troppo is a scalable modular solution compatible with most industry standard inverters and charge controllers to optimise any power generation source including solar, wind, grid and generators. This allows Troppo to be used as on demand energy storage for critical backup, daily off-grid consumption or for turning electricity bills into income statements through our soon to be released PPP service!

- **Maintenance Free**
- **10-year Warranty**
- **High Efficiency >96%**
- **Flexible Capacity Design**
- **Flexible Installation Options**
- **BMS in Each Battery**
- **Compatible AC & DC Coupled Systems**
- **Information display including Odometer function**
- **National Support**

SPECIFICATIONS (see data sheet for details)

Nominal Capacity	4.1kWh / 79.8Ah
Nominal DC Voltage	51.2V
Maximum Discharge Current	63A (limited by circuit breaker)
Maximum Charge Current	63A (limited by circuit breaker)
Maximum Power of Discharge (kW)	approx. 3kW
Charge/Discharge Cycles of certified 3,800mAh cells at 1C rate (to 80% Residual Capacity)	2,000@100% DoD / 4,000@80% DoD / 7,000@50% DoD @ 25°C operating Temp.
Projected MWh Delivered over battery lifetime	10.2 MWh at 80% DoD
Expected calendar life @25°C	>10 years when used as per warranty terms
Operating Temperature Range-Discharging	Discharge: -20°C to 60°C (+/5°C)
Operating Temperature Range-Charging	Charge 0°C to 50°C (+/5°C)
Battery Mounting Options	Standard 19" Rack + Horizontal, Vertical or on either side
Battery Dimensions (mm)	725 D x 438 W x 88 H
Battery Weight	42.5kg
Certification - Troppo 4841 Battery	IEC62619:2017 & AS/NZS 60950.1:2015 UN38.3 & EMC EN61000





RedEarth
ENERGY STORAGE

The Vault
BATTERY CABINET

- Includes RedEarth Troppo batteries
- Multiple Vault banks can be connected
- Prewired 1000A bus bars
- Includes 1.7m of 70mm² main battery cable for easy connection
- Lockable glass door
- Optional master battery (MCCB) breaker
- Optional cellular remote monitoring
- Other size Troppo cabinets available on request
- IP21 indoor rated

Model	Vault-9-MCCB	Vault-11
Max No of Troppo 4.1 kWh batteries	9 + 250A MCCB + Victron BMV	11
Total Storage	Up to 36.9 kWh	Up to 45.1 kWh
Dimensions mm (WxDxH)	600 x 800 x 1166	600 x 800 x 1166
Weight (Excluding Batteries)	72 kg	70 kg
Battery Connections	Pre-wired 1000 Amp Busbars (+ve & -ve) with 70mm ² battery cables (1.7m long)	
Maximum Cabinet Weight	800 kg (Individual Troppo battery weight 42.5kg)	
Lid	Spill proof - includes removable lid	
Door	Supplied standard with toughened glass front door	
Lockable	Yes	
IP Rating	21 (indoor only)	
Mounting	Floor only	
Parallel Connection of Cabinets	Yes	

The Vault is RedEarth's Australian Made and designed battery cabinet that makes installing our Troppo batteries easy. Included in the Vault are our preinstalled battery rails and all cables. This reduces installation time and improves aesthetics.

The Vault-9-MCCB includes Victron Bluetooth Monitor to ensure that the systems state of charge (SOC) can easily be monitored and the 250A master battery MCCB to protect the system.

There is an optional remote monitoring upgrade for the Vault-9-MCCB that features 5 years of free monitoring of the Vault. It includes a SIM card and requires mobile phone coverage.

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