

BushChook

WHOLE HOME BACKUP POWER SOLUTION



RedEarth's BushChook systems offer Australian-made scalability, making them an excellent and enduring investment for your home. **Available in both single and three-phase configurations**, the BushChook provides a range of power outputs tailored to accommodate your specific needs. This versatility ensures effortless and effective power supply solutions for both residential and business applications.

Like all of RedEarth's products, BushChook is fully engineered, assembled, and tested to Australian standards at RedEarth's factory in Brisbane. Features include:

- ✔ **Versatile Power Hub:**
The BushChook seamlessly integrates grid, generator, and load ports achieving a truly unique level of flexibility.
- ✔ **Dynamic AC-Coupled Solution:**
The BushChook partners effortlessly with micro-inverters and standard string PV inverters. Its micro-grid functionality allows you to power on through a blackout and provides frequency control functionality in a grid failure.
- ✔ **Reliable Backup with Generator Support:**
No grid, no worries – in the face of grid outages, the BushChook can power up your backup generator to power loads and charge the battery.
- ✔ **Smart Load Management:**
No generator or AC-coupled solar? The generator port can be easily converted to a smart load port, providing intelligent load management, and ensuring your solar and battery is consumed as efficiently as possible.
- ✔ **Private Power Plant Ready:**
The BushChook keeps your power in your hands with native support for RedEarth's Private Power Plant.

Outdoor-rated and easy-to-install, the BushChook system comes pre-wired as a complete solution with whole house backup functionality.

| Specifications | Single Phase | Three Phase |
|-------------------------------|---|--|
| Power output options | Max. AC output power of 5000W or 8000W | Max. AC output power of 12,000W |
| Solar input | 5kW option Connect up to 7.5kW of solar panels to the dual MPPTs 8kW option Connect up to 12kW of solar panels to the dual MPPTs (150-425Vdc max. 500Vdc) | 12kW option Connect up to 18kW of solar panels to the dual MPPTs (200-650dc max. 800Vdc) |
| Battery | From 2 to 8 x 4.1kWh Troppos (max. 32.8kWh) Voltage: 48Vdc (nom.) Min 2 required for full inverter power rating. (Min 2 for 5KW, minimum 3 for 8KW) | 4 to 8 x 4.1kWh Troppos (Max 32.8kWh) Voltage: 48Vdc (nom.) Min 5 required for full inverter power rating. |
| Electrical connections | Hard-wired via built-in EPS transfer switch PV cables connected directly to pre-installed MC4s. In-built support for controlling AC coupled micro inverters and solar systems, generators or smart loads via hard wired terminal block. | |
| Monitoring | Monitoring hardware included and activated via RedEarth's EMU app (subject to network availability and Optimum subscription). | |
| Energy trading | On-grid only | |
| EV charger | Yes | |



Need support? No worries.

RedEarth is with you all the way, from technical support during installation, to ongoing monitoring and guidance for your system for years to come. Our Australian-based team is on call to make *powering yourself* as easy as possible. We also offer information sessions and training for installers at our factory in Brisbane. Give us a call today to see how you can future-proof your home with a RedEarth system.

www.redearth.energy
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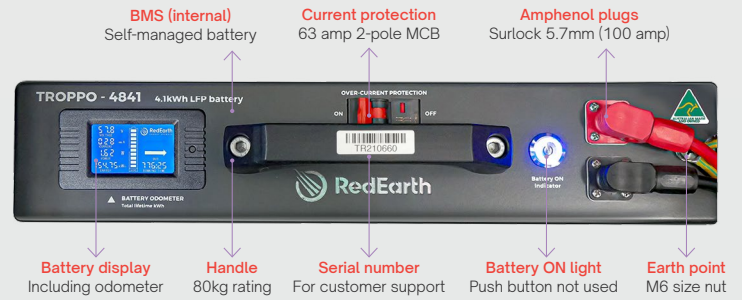
Power yourself.

Troppo

LFP 4841
BATTERIES



User-friendly display designed to make monitoring your battery easy



RedEarth's own battery, Troppo, is the **first Australian-made and owned battery** approved and listed by the Clean Energy Council.

Troppo is a high-quality, self-managed battery that uses the safest and most durable lithium ion chemistry available, Lithium Ferro Phosphate (LFP). This is packaged in the highest quality cells available in the self-managed battery market in Australia. These cells have been tested in the National Battery Testing Centre in Brisbane.

Combined with our latest battery management system, accessible 63A DC dual-pole MCB breaker, informative display, and a usable handle, Troppo delivers safe, highly efficient, and cost-effective performance over the life of both residential and commercial systems, both on- and off-grid.

Compatible with all common battery inverters and solar MPPTs. For more details, scan the QR code on this page or visit www.redearth.energy.

Repairable and recyclable: The Troppo battery is repairable by RedEarth as it is made in Australia. At end-of-life it can be recycled in Australia. Contact RedEarth for details.

Benefits

- ✓ 10-year warranty
- ✓ Maintenance-free
- ✓ Scalable capacity—add more batteries later
- ✓ Battery voltage operates at safe ELV levels
- ✓ High temperature protection
- ✓ Low temperature protection
- ✓ Overcharge protection
- ✓ Flexible installation options available through RedEarth
- ✓ Compatible with industry-standard inverters

| Specifications | |
|-------------------------------------|---|
| 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 |
| MWh delivered over battery lifetime | 10.2MWh at 80% DoD |
| Battery mounting options | Standard 19" rack + horizontal, vertical, or on either side |
| Short circuit current p/battery | 0.4 kA |



Optimises any power source



Need an enclosure for your Troppo batteries? No worries.

RedEarth makes things as easy as possible for our installers and end-customers. We have a range of indoor and outdoor rated enclosures to suit every application. Contact our team to find out more about our **VAULT** range of fully pre-wired battery enclosures.

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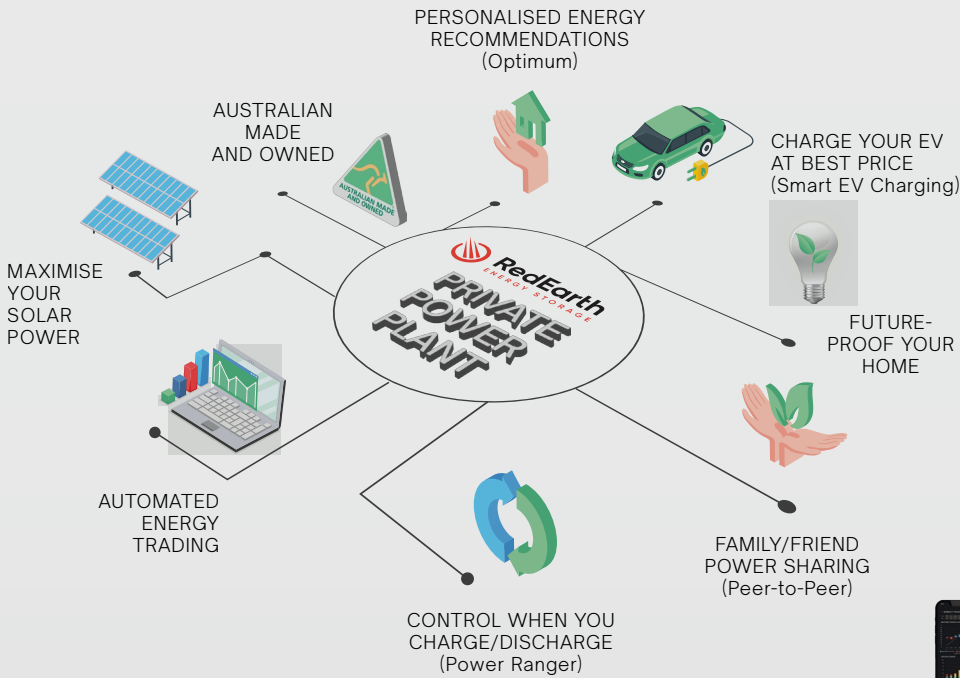


SCAN ME

Power yourself.

Private Power Plant (PPP)

RedEarth's PPP is an ever-growing set of products and services designed to maximise the value of our customers' RedEarth battery system.



RedEarth's Private Power Plant is a unique offering with long-term benefits to both customers and installers. Our installers promoting PPP see:

- ✓ Increased future work opportunities
- ✓ Specialised support
- ✓ Local on-call tech support
- ✓ Ever-growing suite of products (making selling easier!)

The future of electricity is here.

Can you imagine a world powered by renewable energy? We can, and we are committed to making the journey as easy as possible for Australians. Plus, our specialised technology takes our customers from saving money to making money, simply by using their excess solar energy.

Starting with optimising your energy usage, charging your car cheaply (or for profit), trading electricity at wholesale prices, or potentially sending your spare power to grandma, RedEarth continues to invest in R&D to provide more opportunities for customers to capitalise on the excess solar energy they generate.

After all, the power should be in your hands.



Bring your home or business into the future of energy and **electrify everything** with RedEarth. Have a large-scale business? Contact us to learn about our **Enterprise Power Plant**.

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|---------|--|----------------|-------------------|-----------------------------|--|---|
| | | | | | | |
| Optimum | Power Ranger (manual battery control) | Energy Trading | Smart EV Charging | Peer-to-Peer Energy Sharing | Smart Load Control <i>Coming soon</i> | Smart Switchboard <i>Coming soon</i> |

PPP currently includes the above modules

