Gecko HOME BATTERY SYSTEM



RedEarth's Gecko system offers Australian-made scalability, in a slim package with RedEarth-certified inverter attached to the wall, making them an excellent and enduring investment for your home. Available with both single and three-phase inverters, the Gecko 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.

Gecko is made of aluminium to last in Australia's harsh environment. 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: \bigtriangledown

The Gecko seamlessly integrates grid, generator, and load ports achieving a truly unique level of flexibility.

Smart Load Management:

In grid connected applications, 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.

Multiple Power Options:

Gecko is available in 5kW, 8kW (single phase) and 12kW (three phase) power output options to suit the needs of your home.

Private Power Plant Ready:

The Gecko keeps your power in your hands with native support for RedEarth's Private Power Plant.

Outdoor-rated, easy-to-install and scalable, the Gecko system comes pre-wired and can be retrofitted to an existing solar system, making it the easiest slimline system for vour home.



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.

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RedEarth



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)	up to Connect up to solar 18kW of solar the panels to the dual MPPTs on (200-650dc up to max. 800Vdc) solar the Ts Vdc	
Battery	From 2 to 6 x 4.1kWh Troppos (max. 24.6kWh) Voltage: 48Vdc (nom.) Min 2 required for full inverter power rating. (Min 2 for 5KW, minimum 3 for 8KW)	4 to 6 x 4.1kwh Troppos (Max 24.6kWh) Voltage: 48Vdc (nom.) Min 4 required for full inverter power rating.	
Electrical connections	Grid connection, backup circuits connection and Smart Port connection (if used).		
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 – compatible		

Slimline design, perfect for space-constrained installations

Available in two colour options, Colorbond Monument and Colorbond Surfmist

Power yourself.

GECKO TECHNICAL SPECIFICATIONS

Gecko Model	5kW 1-phase GC-5-1xx	8kW 1-phase GC-8-1xx	12kW 3-phase GC-12-3xx
Battery capacity of Gecko system (Troppos)	2 to 6	3 to 6	4 to 6
Battery capacity of Gecko system (kWh nominal)	8.2 to 24.6	12.3 to 24.6	16.4 to 24.6
Inverter model	5K-SG04LP1-AU	8K-SG05LP1-AU	12K-SG04LP3-AU
Battery data			
Battery type	Т	roppo 4841 LFP self-managed lithiu	ım
Battery capacity (nominal)		4.1kWh per Troppo battery	
Battery operating voltage range (V)		48-57.6V	
Max. charging current (A)	120A	190A	240A
Max. discharging current (A)	120A	190A	240A
PV string input data			
Max. DC input power (W)	7500W	12,000W	18,000W
Maximum PV input voltage (V)	500V	500V	800V
MPPT range (V)	150 to 425V	150 to 425V	200V to 650V
Start-up voltage (V)	125V	125V	160V
PV input current (A)	13A+13A	26A+26A	26A+13A
Max. PV Isc (A)	19.5A+19.5A	39A+39A	39A+19.5A
No. of MPPT trackers		2	
No. of strings per MPPT tracker	1+1	2+2	2+1
AC output data			
Rated AC output and UPS power (W)	5,000	8,000	12,000
Max. AC output power (W)	5,000	8,000	12,000
Peak power (off-grid)		2 times of rated power, 10 S	
Rated AC output current (A)	21.7A	34.8A	17.4A
Max. AC output current (A)	21.7A	34.8A	17.4A
Max. three-phase unbalanced output current (A)	N/A	N/A	26.1A
Max. continuous AC passthrough (A)			
* When installed in the BushChook system AC passthrough is current limited to 40A	35A*	50A*	45A*
Power factor		0.8 leading to 0.8 lagging	
Output frequency and voltage	50Hz; 230V/400V, 240/415V	50Hz; 230V/400V, 240/415V	50Hz; 230V/400V, 240/415V
Grid connection type	Single phase L/N/E	Single phase L/N/E	Three phase 3L/N/E
Protection			
Integrated	Anti-islanding Protection, Surge protection, Output Shorted Protection, PV String Input Reverse Polarity Protection, Output Over Current Protection, Insulation Resistor Detection, Residual Current Monitoring Unit		
Over voltage category	DC Type II / AC Type III		
Certifications and standards			
Grid regulation		AS/NZS 4777.2	
EMC / Safety regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
General data			
Operating temperature range (°C)		-40~60°C, 45°C derating	
Cooling	Smart cooling with temperature-controlled fans		
Weight of Gecko battery enclosure (kg)		41	
Weight of Gecko inverter (kg)	14	24	35.6
Size of Gecko battery enclosure (mm)		800W x 1135H x 390D	
Size of Gecko inverter (mm)	333W x 11350H x 238D	330W x 580H x 232D	420W x 670H x 233D
Protection degree of Gecko system		IP43	
RedEarth Warranty	10 years (AU & NZ and South Pacific region)		

Tropp LFP 4841 BATTERIES



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.



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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User-friendly display designed to make monitoring your battery easy



BMS (internal)	Current protection	Amphenol plugs	
Self-managed battery	63 amp 2-pole MCB	Surlock 5.7mm (100	
TROPPO - 4841 4.1kWh LFP battery	RedEarth	D () Bity et Bity et	
	\downarrow	\checkmark	\checkmark
Battery display Handle	Serial number	Battery ON light	Earth point
Including odometer 80kg rating	For customer support	Push button not used	M6 size nut

Benefits

	10-year warranty	Specifications	
		Nominal capacity	4.1kWh/79.8Ah
	Maintenance-free	Nominal DC voltage	51.2V
	Scalable capacity—add more batteries later	Maximum discharge current	63A (limited by circuit breaker)
	Battery voltage operates at safe ELV levels	Maximum charge current	63A (limited by circuit breaker)
	High temperature protection	Maximum power of discharge (kW)	Approx 3kW
	Low temperature protection Overcharge protection	MWh delivered over battery lifetime	10.2MWh at 80% DoD
	Flexible installation options available through RedEarth	Battery mounting options	Standard 19" rack + horizon- tal, vertical, or on either side
9	Compatible with industry-standard inverters	Short circuit current p/battery	0.4 kA



🗐 SCAN ME