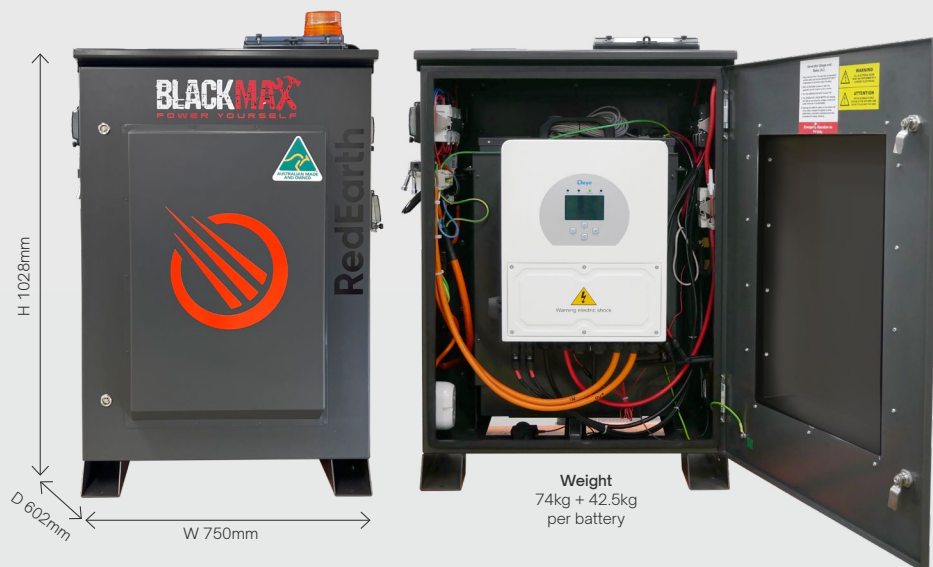


# BlackMax

OFF-GRID, ON-GRID, HYBRID



New transformer inverter

Grid compatible

Two x MPPTs

## The new BlackMax includes:

- STC rebate eligible
- EV charger ready
- Energy trading ready

The **first** Australian-made off-grid battery energy storage system approved by the Clean Energy Council is now **also available for on-grid use and includes many new upgrades.**

BlackMax was RedEarth's original product, created with the idea of providing electricity where it isn't. The new updated BlackMax includes:

- ✓ Now with two solar MPPT trackers each with a 19.5A PV Isc to allow larger solar arrays to be used
- ✓ More accurate state-of-charge monitoring
- ✓ AC input and output meters
- ✓ Increased continuous output of 6kW up from 3.7kW
- ✓ Flashing indicator light at low state of charge, to alert users
- ✓ Now with industrial grade monitoring hardware included (RedEarth Optimum subscription required to activate)
- ✓ Dual AC inputs

**BlackMax is the perfect solution for sheds, weekenders and tiny homes.** Its IP43 rating means it can be installed outside in a shaded area.

Like all of RedEarth's products, BlackMax is fully engineered, assembled, and tested to Australian standards at RedEarth's factory in Brisbane. It comes as a complete solution that can be easily installed by an SPS-certified installer.

Specifications	
Power output	Max. AC output power 6000W
Solar input	Connect up to 12,000W of solar panels to the dual MPPTs (150-425 Vdc max. 500Vdc)
Battery	Up to 3 x 4.1kWh Troppos (max. 12.3kWh) Voltage: 48Vdc (nom.) Minimum two required for full inverter power rating. (Three recommended for continuous > 5KW power)
Electrical connections	1 x 15A outlet and 1 x 10A outlet, or have an electrician hardwire an external sub board to the internal AC output terminal block. Generator hardwire and autostart. AS4777.2 Approved Grid connection capable in lieu of a generator
Monitoring	Monitoring hardware included and activated via RedEarth's EMU app (subject to network availability and Optimum subscription).
Energy trading	On-grid only
EV charging	Yes



**Need a complete kit including solar panels?**  
**No worries.**

To make installation of the BlackMax as easy as possible, RedEarth also provides an all-in-one **BlackMax Powerstation Kit** that includes solar panels and mounting hardware. Contact RedEarth to find out more.

[www.redearth.energy](http://www.redearth.energy)  
1800 RE ENERGY (1800 733 637) | [sales@redearth.energy](mailto:sales@redearth.energy)  
15 Fienta Place, Darra, Brisbane, QLD Australia 4076



SCAN ME

## Power yourself.

# BLACKMAX TECHNICAL SPECIFICATIONS

BlackMax Model	6kW 1-phase BMX-6-1xx
Battery capacity of BlackMax system (Troppos)	1 to 3
Battery capacity of BlackMax system (kWh nominal)	4.1 to 12.3
Inverter model	6K-SG04LP1-AU
Battery data	
Battery type	Troppo 4841 LFP self-managed lithium
Battery capacity (nominal)	4.1kWh per Troppo battery
Battery operating voltage range (V)	48-57.6V
Maximum charging current (A)	135A
Maximum discharging current (A)	135A
PV string input data	
Maximum allowable PV (W)	12000W
Maximum usable PV (W)	9000W
Maximum PV input voltage (V)	500V
MPPT range (V)	150 to 425V
Start-up voltage (V)	125V
PV input current (A)	13A+13A
Maximum PV Isc (A)	19.5A+19.5A
No. of MPPT trackers	2
No. of strings per MPPT tracker	1+1
AC output data	
Rated AC output and UPS power (W)	6,000
Maximum AC output power (W)	6,000
Peak power (off-grid)	2 times of rated power, 10 S
Rated AC output current (A)	26.1A
Maximum AC output current (A)	26.1A
Maximum continuous AC passthrough (A) * When installed in the BlackMax system AC passthrough is current limited to 25A	40A*
Generator Total Harmonic Distortion (THDi)	<3% (of nominal power)
Power factor	0.8 leading to 0.8 lagging
Output frequency and voltage	50Hz; 230V/400V, 240/415V
Grid connection type	Single phase L/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 BlackMax battery enclosure (excluding batteries) (kg)	74
Size of BlackMax battery enclosure (mm)	750W x 1028H x 602D
Protection degree of BlackMax system	IP43
RedEarth Warranty	10 years (AU & NZ and South Pacific region)