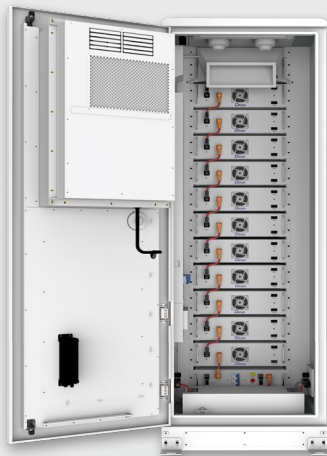


Dingo 50kW

LUDICROUS MODE FOR YOUR HOME



4 x MPPTs
built-in

Air-conditioned
battery cabinet

4G monitoring
backup included

Compatible with
RedEarth's PPP

10-year
warranty*

Dingo 50kW is:

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

RedEarth's Dingo 50kW is the most powerful battery you can install at your on-grid home without special applications and additional safety equipment. Dingo 50kW comes with 61.4kWh as standard. Extra battery modules can be added, up to 368.4kWh for when you want to go far. This versatility ensures effortless and effective power when you need it.

Of course Dingo 50kW can also be used in your small business or to support the extra loads from EV chargers in apartment buildings. It is also just as comfortable in off-grid applications. Like all of RedEarth's products, Dingo 50kW is fully engineered, assembled, and tested to Australian standards at RedEarth's factory in Brisbane. Features include:

- ✓ **Versatile Power Hub:**
The Dingo 50kW seamlessly integrates grid, generator, and load ports achieving a truly unique level of flexibility.
- ✓ **Dynamic AC-Coupled Solution:**
The Dingo 50kW partners effortlessly with micro-inverters and standard string PV inverters allowing you to connect an additional 50kW of PV from your home.
- ✓ **Reliable Backup with Generator Support:**
No grid, no worries – in the face of grid outages, the Dingo 50kW can start 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 Dingo 50kW keeps your power in your hands with native support for RedEarth's Private Power Plant, including energy trading and peer-to-peer power sharing.

Outdoor-rated and easy-to-install, the Dingo 50kW system comes pre-configured as a complete solution with whole house backup functionality.



*Specific terms and conditions apply. Please see Dingo Warranty Statement on website.

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
1800 RE ENERGY (1800 733 637) | sales@redearth.energy
15 Fienta Place, Darra, Brisbane, QLD Australia 4076

Specifications	Three Phase
Power output options	Max. AC output power of 50kW
Solar input	Connect up to 100kW of solar panels to the four MPPTs (150-800Vdc). Connect another 50kW PV inverter to the Smart Port for a total of up to 150kW of PV panels.
Battery	61.4kWh. Add up to 5 more 60kWh modules for a total of 368.4kWh max.
Electrical connections	PV cables connected directly to pre-installed Devalan connectors. LOAD, GRID and SMART PORT (Gen) connections directly to the inverter.
Parallel operation and AC combiner boards	Connect up to 10 inverters in parallel for up to 500kW. Easily combined using RedEarth's AC Combiners for indoor/outdoor and on-grid/off-grid. Effortlessly achieve 500kW/3.6MWh using RedEarth's all in one ecosystem.
Monitoring	Monitoring hardware included and activated via RedEarth's EMU app (subject to network availability and Optimum subscription).
Energy trading	On-grid systems only
EV charger	Up to 22kW DC fast charger

Dingo 50kW configuration options

Each 50kW Dingo can support up to six battery cabinets (**total 368.4kWh**).



Power yourself.

DINGO 50kW TECHNICAL SPECIFICATIONS

Battery input data	
Battery capacity	61.4kWh per cabinet. Max. of six cabinets (=368.4kWh)
Battery voltage range (V)	160-800
Max. charging current (A)	50 + 50
Max. discharging current (A)	50 + 50
Number of battery input	2
PV string input data	
Max. PV input power (W)	100,000
Max. DC input voltage (V)	1,000
Start-up voltage (V)	180
MPPT range (V)	150-850
PV input current (A)	36 + 36 + 36 + 36
Max PV I_{sc} (A)	55 + 55 + 55 + 55
No. of MPPT trackers	4
No. of strings per MPPT tracker	2 + 2 + 2 + 2
AC data (output/input)	
Rated AC output and UPS power (W)	50,000
AC output rated current (A)	72.5
Peak power (off-grid)	1.5 times of rated power, 10 S
Max. three-phase unbalanced output current (A)	60
Max. continuous AC passthrough (A)	200
Generator Total Harmonic Distortion (THDi)	<3% (of nominal power)
Protection	
Integrated	Anti-islanding protection, PV string input reverse polarity protection, insulation resistor detection, residual current monitoring unit, output over current protection, output shorted protection, surge protection, arc fault circuit interruption (AFCI optional)
Certifications and standards	
Grid regulation	AS/NZS 4777.2
Safety EMC / standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General data	
Operating temperature range (°C)	-40 to +60°C, >45°C derating
Cooling	Air-conditioner for battery cabinet + smart cooling for inverter
Noise (dB)	≤65 dB
Weight (kg)	1015 per battery cabinet + 80 inverter
Size (mm)	1050W x 735D x 2235H per cabinet + 527W x 321D x 894H for inverter
Protection degree	IP55 battery cabinet IP65 inverter
Inverter topology	Non-isolated
RedEarth warranty	10 years (AU & NZ and South Pacific region). Terms and conditions apply

Intelligent battery temperature control

The system meets 1C high rate operation, **built-in air conditioner**, meaning the max. temp. of the battery is <40°C

Fire suppression systems

Built-in aerosol fire extinguishing system for battery cabinet

Intelligent battery management

Intelligent BMS with active cell balancing

Power yourself.