

# Dingo

Australia's **easiest** scalable C&I system



**OFF-GRID  
RESORT**



**HOSPITALS/  
MEDICAL**



**CATTLE  
STATION**



**MINING  
CAMP**



**LARGE  
RESIDENTIAL**



**COMMERCIAL  
BUILDINGS**



**APARTMENT  
BUILDINGS – EV**



**OUTBACK  
FARM**

**OUTDOOR-RATED, ON & OFF GRID,  
MODULAR ENERGY STORAGE.  
FROM 29.9KW TO 500KW**

Fully integrated with RedEarth's Enterprise Power Plant (EPP),  
Dingo provides a range of world class benefits, including:



Integrated  
with  
RedEarth's  
Enterprise  
Power Plant  
(EPP)



**EPP**  
• Energy trading  
• Power sharing  
• Power Ranger  
(manual battery  
control)



RedEarth  
EMU app for  
on-the-go  
monitoring  
and control



All-in-one  
outdoor  
system with  
RedEarth AC  
combiner  
box



Modular  
design with  
scalable  
power and  
energy (50kW  
+ 60kWh)



Integrated solar  
MPPT for  
direct solar  
connection



Certified  
SuperGrid  
ready  
(AS4777.2)



EV fast  
charging  
options  
available

*“Dingo is the answer when you want a larger, scalable battery system  
that is fully supported by RedEarth's Enterprise Power Plant”*

Co-Founder and Chief Technology Officer,  
RedEarth Energy Storage



# Dingo: Fully integrated, scalable, and ready-to-run. Both customer and installer fully supported by RedEarth

## Customer benefits



## Installer benefits

- Fully integrated incl. RedEarth monitoring and EPP option ✓
- Ready-to-run. Assembled and factory tested in BNE. ✓
- Modular battery capacity (60kWh blocks) ✓
- 29.9kW to 500kW power rating (50kW blocks) ✓
- In-built MPPT. 75kW of PV per 50kW inverter ✓
- On-grid or off-grid. CEC-listed inverter ✓
- Dingo pack: Custom multi Dingo system design service available ✓
- Easy to install. Full engineering support for larger systems ✓

## RedEarth proprietary custom-engineered software and remote monitoring and control service



### Enterprise Power Plant (EPP) Headquarters

**Remote monitoring and control service.** EPP is the enterprise version of RedEarth's value-creating PPP (Private Power Plant). As part of the remote monitoring service, RedEarth has a team of highly-trained technicians and engineers observing systems in the field and providing ongoing support and recommendations to ensure you achieve the best results from your system.



### Energy Monetisation Unit (EMU app)

Monitor and control your Dingo on-the-go. All RedEarth systems are equipped with specialised monitoring software to ensure you are getting the most out of your battery energy storage system. Use RedEarth's own EMU app to view your system status.



### Energy Management System (RedHead EMS) compatible

Dingo is compatible with RedEarth's proprietary in-house developed advanced Energy Management System. RedHead is designed to work reliably with all of the components of the Dingo system. This expands the capability of the Dingo in complex operating environments where the Dingo alone is not sufficient.



# Dingo installation: Full range of RedEarth certified support services and components available

The Dingo system is specially designed to make installation and ongoing operation as easy and reliable as possible. There are currently eight optional extras, including support services and three compatible hardware components available, with more being added all the time. So no matter whether you are on-grid or off-grid, Dingo is the perfect solution.

## RedEarth certified support services



**SINGLE  
LINE  
DIAGRAM  
SERVICE**



**ENGINEERING  
SUPPORT  
SERVICE**



**GENERATOR  
COMPATIBILITY  
SUPPORT  
SERVICE**



**PV ARRAY  
DESIGN  
SUPPORT  
SERVICE**



**SATELLITE  
STARLINK  
(local WiFi  
service)**



**FACTORY/  
ONSITE  
SUPPORT &  
TRAINING**

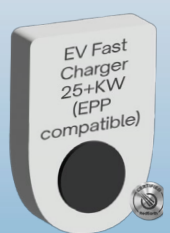
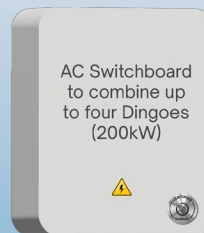


**REDEARTH  
REMOTE  
MONITORING:  
OPTIMUM**



**REDEARTH'S  
ENTERPRISE  
POWER  
PLANT (EPP)**

## RedEarth certified components



## Dingo configuration options

### Dingo pack scalability:

#### Option 1. MAX. 50kW/360kWh

Single 50kW inverter can support up to six battery cabinets

*Dingo building block  
50kW/60kWh*



#### Option 2. MAX. 500kW/600kWh

Up to 10 x 50kW inverters can be connected in parallel, each with at least 1 x 60kWh battery cabinets



#### Option 3. MAX. 500kW/3.6MWh

Up to 10 x option 1 (500kW/3.6MWh)  
**Note:** Each 50kW inverter must have the same number of battery cabinets

### 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

# DINGO BUILDING BLOCK TECHNICAL SPECIFICATIONS

Dingo model	Dingo 29.9kW		Dingo 50kW	
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. allowable PV (W)	59,800		100,000	
Max. usable PV (W)	44,850		75,000	
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 + 36 + 36 + 36	
Max. PV I <sub>sc</sub> (A)	55 + 55 + 55		55 + 55 + 55 + 55	
No. of MPPT trackers	3		4	
No. of strings per MPPT tracker	2 + 2 + 2		2 + 2 + 2 + 2	
AC data (output/input)				
Rated AC output and UPS power (W)	29,900		50,000	
AC output rated current (A)	43.4		72.5	
Peak power (off-grid)	1.5 times of rated power, 10 S			
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)	735W x 1050D 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			

## Need help with the install? No worries.

Are you an EPC or commercial solar and battery installer? Come to our factory to learn more about our commercial scale systems and for system testing. RedEarth also offers ongoing engineering support services including single line diagram (SLDs). Give us a call today to see how you can future-proof your business with a RedEarth system.

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



**Power yourself.**