

THE POWER OF

REDARC

INVERTERS &
BATTERIES



**INVERTERS &
BATTERIES**

ESSENTIAL POWER BUILT TOUGH.



THE POWER OF REDARC

Born and bred in South Australia, REDARC has been powering adventure for over 45 years. Our products are trusted by explorers and weekend warriors the world over, providing customers with the confidence to explore and work without limits.

Your first and only choice. REDARC gives you the power to explore no matter your vehicle or where you are going. Our rugged and reliable solutions are designed and tested for the toughest environments on the planet, ready to thrive where others cant. We know this because we test our products in state-of-the-art in-house environmental and vibration testing facilities, to simulate years of use in days.

Every REDARC product is backed by industry-leading technical support and a commitment to world-class customer service, so you're never alone. We don't compromise on quality. So, wherever your journey takes you, REDARC will get you there and back.



**AUSTRALIAN OWNED
AND OPERATED**



**AUSTRALIAN
CUSTOMER
SERVICE**



WHAT ARE INVERTERS AND BATTERIES?

The secondary battery is the foundation of any dual battery system. Available in varying sizes and chemistries, a secondary battery stores energy generated from a variety of sources, including the vehicle's alternator while you drive.

An inverter takes the power stored in a battery and converts it into 240V AC power, like you would find at home. Inverters are commonly available in two forms, Modified Sine Wave and Pure Sine Wave. Modified Sine Wave, while often cheaper, creates rough AC power not suitable for sensitive electronics. A Pure Sine Wave, on the other hand, produces a smooth output that replicates grid electricity, perfect for powering modern, sensitive electronics.

WHY DO I NEED A BATTERY AND INVERTER?

A 12V inverter and battery opens the door to power independence when you're off the grid. Power everyday appliances anywhere and bring the comforts of home to the wild, the job site, or the open road without relying on mains power. Enjoy the convenience of refrigerated food and charged devices no matter where you are. With REDARC's Pure Sine Wave inverters, you'll get reliable, high-quality power for everything from small electronics to high-draw appliances like microwaves and kettles. Paired with a REDLAB Alpha150 or REDLAB Icon battery, you'll have a system that's ready for work and play.



Scan to learn
more about
Batteries.



Scan to learn
more about
Inverters.

BATTERIES



OUTPOWER, OUTSMART, OUTLAST.

REDARC Lithium Adventure Batteries (REDLAB) give you the freedom to explore with confidence, delivering reliable power wherever the road takes you.

Built to handle the toughest conditions, REDARC's REDLAB range combines long-lasting performance with fast charging and zero maintenance. Whether you're heading out for a weekend away or venturing far off-grid, they keep your essential gear running so you can focus on the journey ahead.



POWER FOR EVERY JOURNEY

With advanced safety features and options to suit any build, REDLAB makes it easy to power the perfect system for any journey.



POWER THAT'S READY CYCLE AFTER CYCLE

Fast-charging and with a cycle life up to ten times longer than traditional acid-based batteries, these batteries are built to keep you powered trip after trip.



MAINTENANCE-FREE POWER

Designed for longevity, REDLAB delivers years of consistent and dependable energy without the need for ongoing maintenance. The ultimate set-and-forget solution.



TESTED FOR THE HARSHTEST CONDITIONS

Engineered and proven in Australia's toughest environments, these batteries perform from scorching deserts to icy alpine trails. They'll deliver reliable power you can count on when it matters most.

GO FURTHER WITH LITHIUM.

Compared to traditional chemistries, lithium is lighter with a higher-power density, and a longer lifespan. They also boast a 100% usable capacity - double that of traditional chemistries. They're the ultimate investment in worry-free, maintenance-free energy independence.

INTERNAL BATTERY MANAGEMENT SYSTEM

Each lithium battery is equipped with its own internal Battery Management System (BMS), that monitors, manages, and protects its internal components, while also allowing parallel connection for greater power storage.

Different systems can charge and discharge at different rates, leading to imbalances, reduced performance, shorter lifespan, and potential safety hazards. When building a system, batteries should be identical in age, brand, and specs, including capacity and chemistry.

	SUITABLE FOR	INVERTER COMPATIBILITY
ALPHA150 	High capacity for its size, massive 200A discharge capacity, extra-long lifespan with 5,000+ cycles and built-in wireless battery monitoring make the Alpha150 the ultimate choice in 12V lithium power. LBAT12150-SB	One Battery will support up to a 2,000 watt inverter; two can support a 3,000 watt inverter.
ICON100 	With IP67-rated rugged construction, ultra-high discharge capability, and seamless integration with REDARC charging systems, this battery is perfect for the campsite, or the worksite. LBATN12100	Can be used with any inverter up to 1200 watt in size (per battery).
ICON200 	Designed for those who rely on higher power appliances, a 200A continuous discharge current and over 6000 charge cycles, gives you the confidence to go further and stay longer. LBATN12200	One battery can support up to a 2000 watt inverter.
ICON300 	Perfect for mobile living and extended stays. This huge 300Ah capacity, ultra-high discharge battery is capable of handling larger inverters, enabling you to go further, power more, and stay longer. LBATN12300	One 300Ah battery can support a 3000 watt inverter.

ALPHA



THE BENCHMARK IN LITHIUM POWER.

Unleash the unmatched power of REDARC's REDLAB Alpha150, the leader in lithium power and endurance.

With a 150Ah capacity and a massive 200A discharge current, the Alpha150 is built to endure even the most demanding energy needs. Designed to maximise space and minimise weight in caravans, camper trailers, RVs and 4WDs, it's the ultimate single battery solution for running inverters up to 2000 watts.



UNRIVALLED DISCHARGE CAPACITY

The massive 200A continuous discharge rating and 350A 10 second surge rating, when coupled with an appropriate inverter, is enough to power any household appliance from a single battery.



DESIGNED FOR TOUGH TERRAINS

Made in the Netherlands and encased in durable PC/ABS with an IP56 rating, the Alpha150 shrugs off vibration, dust or water.



SELF HEATING

Charge in temperatures as low as -30°C up to 45°C and discharge from -20°C to 60°C. Conquer extreme climates with confidence.



ONBOARD MONITORING

Stay informed with Bluetooth connectivity and the intuitive companion app. Get state of charge and capacity remaining at your fingertips.

ALPHA150

LBAT12150-SB



THE ALPHA150 DIFFERENCE

With a lifespan of over 5,000 cycles, Alpha150 outperforms most lithium batteries and lasts ten times longer than equivalent AGM batteries. The massive 200A discharge current enables this battery to power inverters up to 2000 watts from a single battery, optimising space and minimising weight.

Onboard Bluetooth delivers seamless battery level monitoring via your mobile device, while the built-in heater ensures reliable charging even in sub-zero temperatures.

The Alpha150 sets the benchmark in 12V lithium power.

LIGHTWEIGHT POWER

With 150Ah squeezed into 15.5kg, the Alpha150 leads the market in power-to-weight ratio, optimising the capacity of your caravan, camper or 4x4.



 **150AH**
CAPACITY



**70% HIGHER
POWER DENSITY**



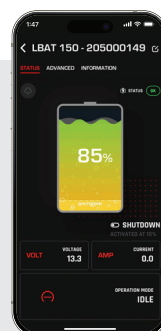
**80% FASTER
CHARGING**



**30% HIGHER WEIGHT
EFFICIENCY**



**OVER 5000
CYCLES**



ON BOARD MONITORING

With the Alpha150 you can stay informed with Bluetooth connectivity and the intuitive companion app. State of charge and capacity remaining are at your fingertips.



ACCESSORY



ALPHA150 BATTERY TRAY

LBATMB-001

Featuring a quick, simple installation, the Alpha150 Battery Tray keeps your battery securely locked in position, even over rough terrain.

ICON



TOUGH, SAFE & TRACK-READY.

Built for life off the beaten path, REDLAB Icon delivers unmatched power, durability and safety for 4x4, outdoor and off-grid exploration. With IP67-rated rugged construction, ultra-high discharge capability, and seamless integration with REDARC charging systems, they deliver serious off-grid performance - without the bulk.

No matter where you roam or what you run, REDLAB Icon gives you the confidence to go further, and stay longer.



POWER HUNGRY? BRING IT ON.

Run bigger setups with fewer batteries. With 100% usable capacity, ultra-high charge/discharge rates, and support for powerful inverters and chargers, REDLAB Icon batteries deliver serious grunt.



OUTLASTS THE OUTBACK.

Engineered to survive the toughest terrain. With IP67 water and dust protection, plus extreme vibration resistance, REDLAB Icon batteries thrive where others fail – no matter the heat, dust, or corrugations.



REDARC READY.

No guesswork, just performance. Designed to work seamlessly with REDARC's BCDC and Manager chargers, they form a rock-solid, all-in-one power system – so you can travel further, camp longer, and power everything with confidence.



SMART POWER. SAFE TRAVELS.

Travel with peace of mind. With cutting-edge safety features, the latest standards certifications, and a built-in isolation switch, these batteries are safe to install, safe to transport, and ready for off-grid travel.

ICON

ICON100 | LBATN12100

ICON200 | LBATN12200

ICON300 | LBATN12300

POWER MORE DEVICES WITH FEWER BATTERIES

Compatible with high-current chargers and inverters, REDLAB Icon supports powerful systems from a single battery, saving both weight and space. With 100% usable capacity, ultra-high charge/discharge rates and support for power inverters and chargers, REDLAB Icon batteries deliver power on demand, without the bulk.

ONE SYSTEM, ENDLESS POSSIBILITIES

Power every part of your journey with confidence. REDLAB Icon is designed for seamless compatibility and integration with REDARC systems to deliver a complete off-grid power solution backed by expert support.

BUILT FOR EXTREMES, BACKED BY SAFETY

IP67 rated for harsh conditions, water and dust protection, REDARC batteries are rigorously tested and certified to the highest safety standards – built to perform and never let you down.

With cutting-edge safety features, the latest standards and certifications, and a built-in isolation switch, these batteries are safe to install, safe to transport and ready for off-grid travel.

SUITABLE FOR COLD CLIMATES

Internal cell heater allows charging at temperatures below freezing, ensuring your adventure can go to the most demanding environments.



ICON100
100A
CAPACITY

ICON200
200A
CAPACITY

ICON300
300A
CAPACITY

ACCESSORIES



REDLAB ICON MOUNTING TRAY

Galvanized sheet steel, powder coated black with woven polypropylenes straps.

LBATN12100-MB Icon100 100A Lithium Battery Mounting Tray

LBATN12100-MB Icon200 200A Lithium Battery Mounting Tray

LBATN12100-MB Icon300 300A Lithium Battery Mounting Tray

INVERTERS



FIND POWER ANYWHERE.

Use your devices and appliances anywhere and get the same type of power you'd get at home.

REDARC's Pure Sine Wave Inverters are engineered for life on the road, delivering clean power that keeps sensitive electronics and high-demand appliances running at their best. Built with advanced safety features and robust construction, they're designed to perform in the harshest conditions. From compact setups to high-capacity systems, there's a REDARC inverter ready to bring AC power to your campsite, or worksite.



ULTIMATE APPLIANCE PROTECTION

With built-in switching and multiple levels of protection, take all the comforts of home with you while you travel without fear of damaging your valuable appliances.



PURE SINE WAVE OPERATION

With an output that's almost identical to household grid power, Pure Sine Wave Inverters are the safest choice for powering common household appliances on the road.



BUILT TO LAST

Built to REDARC's strict durability and quality standards, the inverters are designed with vibration resistance, integrated safety features, and a wide operating temperature range, making them built to last in any terrain.














REDVISION COMPATIBLE

Connect your inverter to a TVMS Rogue or Prime module to control your inverter using your smartphone or RedVision Display, or choose an Inverter Remote for convenient operation from another location.

DETERMINING YOUR POWER NEEDS.

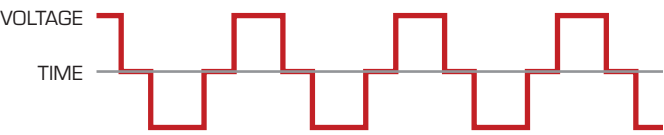
Don't go without your devices, lights, tools, fridges and accessories while you're off-grid. Inverters and lithium batteries unlock the freedom to go further, stay longer, and power more of what you love on the campsite or the worksite.

INVERTER REQUIRED	 12V ACCESSORIES including USB devices, LED lights and portable fridges	 Laptop or drone UP TO 250W	 Power Tools UP TO 250W	 E-bike Charger UP TO 600W	 Microwave UP TO 1100W	 Cooktop UP TO 2000W	 Toaster UP TO 2000W	 Espresso Machine UP TO 2000W	 Hair Dryer UP TO 2000W	 Kettle UP TO 2400W	 Air-con UP TO 3000W
	12 V ONLY (No inverter)	Larger capacities will last longer between charges.									
350W	1 × 100 Ah (LBATN12100)										
700W	1 × 100 Ah (LBATN12100)										
1000W	1 × 100 Ah (LBATN12100)										
1200W	1 × 150 Ah (LBAT12150-SB) or 1 × 200 Ah (LBATN12200)										
2000W	1 × 150 Ah (LBAT12150-SB) or 1 × 200 Ah (LBATN12200)										
3000W	1 × 300 Ah (LBATN12300) or 2 × 200 Ah (LBATN12200)										
<div><div></div> Recommended<div></div> Likely, but check appliance and inverter</div>											

PURE VS MODIFIED SINE WAVE

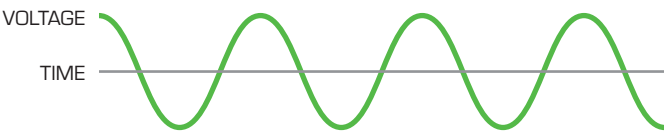
Pure sine wave inverters are almost always recommended over modified sine wave as they are designed for powering sensitive and modern electronics. With fully isolated input and output and protection against overloading or short circuiting, REDARC pure sine wave inverters produce less heat and less noise than modified sine wave inverters.

MODIFIED SINE WAVE



Cheaper inverters try to imitate a sine wave by ‘chopping off’ the corners of a sine wave. Modified sine wave inverters can often lead to appliances overheating due to faster switching times on each polarity change, which stresses appliances and devices.

PURE SINE WAVE



REDARC Pure Sine Wave Inverters are the safest choice for using common household appliances on the road as they give you an output almost identical to household mains power.

INVERTER RANGE

RS3

1200W | R-12-1200RS3, R-24-1200RS3

2000W | R-12-2000RS3, R-24-2000RS3

3000W | R-12-3000RS3, R-24-3000RS3

ESSENTIAL POWER BUILT TOUGH.

REDARC's RS3 Inverters are the ultimate choice for powering tool and appliances on the road.

With a built-in Automatic Transfer Switching (ATS), RS3 Inverters deliver a seamless, reliable and automatic transition between battery and mains, saving you precious charge, and ensuring that you're always powered.

When it's time to start up appliances, an improved surge capacity means they're capable of handling the initial loads of highly demanding appliances. Save valuable space and reduce weight by powering more demanding appliances with a smaller inverter.

Perfect for those who visit AC powered sites, its in-built RCD ensure you meet AS/NZS compliance



1200W
POWER CAPACITY



2000W
POWER CAPACITY

3000W
POWER CAPACITY



75% QUIETER OPERATION

RS3 Inverters operate up to 75% quieter than comparable models, ensuring they won't disrupt the tranquility of the best camping spot when powering the essentials.



200% HIGHER SURGE CAP

With a 200% higher surge capacity and for twice as long, power more demanding appliances with a smaller inverter, saving valuable space and reducing weight.



BUILT TO LAST

Built to REDARC's strict quality standards, the RS3 inverters are engineered with robust vibration resistance and integrated safety features, they are built to stand the test of time and terrain.



BUILT-IN SWITCHING

Game-changing ATS integration ensures a seamless, reliable transition between battery and mains power – ending power interruptions and manual intervention when plugging in at a caravan park.

IN-BUILT RESIDUAL CURRENT DEVICE

An in-built Residual Current Device (RCD) monitors electricity flow, preventing accidents and assisting with compliance against local standards.





TOURING

350W | R-12-350RS2, R-24-350RS
700W | R-12-700RS, R-24-700RS
1000W | R-12-1000RS, R-24-1000RS
2000W | R-12-2000RS2, R-24-2000RS

COMPACT POWER FOR EVERY JOURNEY

With REDARC's range of Touring Inverters, you can have all of the comforts of home when you're out on the road.

Slimmer, lighter and with a smaller footprint compared to the RS3 range, these Touring Inverters will fit in tighter spaces.

Touring Inverters feature fully isolated input and output, as well as multiple levels of protection, including overload, short circuit and over-temperature and load controlled cooling fan.



350W
POWER CAPACITY

700W
POWER CAPACITY

1000W
POWER CAPACITY

2000W
POWER CAPACITY

ACCESSORIES

INVERTER REMOTE REMOTE-RS

Designed so that the inverter can be installed out of sight, the Inverter Remote on/off switch allows for control your inverter from a more convenient location. The Remote Switch can be flush mounted up to eight meters away.

Alternatively, an inverter can be connected to a TVMS module for switching through RedVision.



RS3 INVERTER WIRING KITS

Including all required hardware and wiring, ensuring the best possible install.

RS3WK-001	R-12-1200RS3, R-24-2000RS3
RS3WK-002	R-12-2000RS3, R-24-3000RS3
RS3WK-003	R-12-3000RS3
RS3WK-004	R-24-1200RS3

SPECIFICATIONS

BATTERIES

	ALPHA150	ICON		
	LBAT12150-SB	LBATN12100	LBATN12200	LBATN12300
Nominal capacity	150 Ah	100 Ah	200 Ah	300 Ah
Continuous discharge	200 A	100 A	200 A	300 A
Peak discharge (pulse)	350 A (10 seconds)	150 A	300 A	450 A
Cycle life	5000 (100% DoD)	6000 (80% DoD)		
Maximum charge current	135 A	100 A	200 A	300 A
Recommended charge voltage	14.3 - 14.6 V	14.2 V		
Charge temperature range	-30°C to 45°C	0°C to 60°C		
Discharge temperature range	-20°C to 60°C	-20°C to 60°C		
Storage temperature range	-20°C to 45°C	15°C to 35°C		
IP rating	IP56	IP67		
Dimensions (D × W × H)	353 × 175 × 190 mm	165 × 120 × 37 mm	165 × 120 × 37 mm	100 × 120 × 37 mm
Weight	15.5 kg	12 kg	23 kg	37 kg



INVERTERS

	RS3			TOURING			
	R-12-1200RS3 R-24-1200RS3	R-12-2000RS3 R-24-2000RS3	R-12-3000RS3 R-24-3000RS3	R-12-350RS2 R-24-350RS	R-12-700RS R-24-700RS	R-12-1000RS R-24-1000RS	R-12-2000RS2 R-24-2000RS
Power rating	1200 W	2000 W	3000 W	350 W	700 W	1000 W	2000 W
Surge power (2 sec)	2400 W	4000 W	6000 W	700 W	1230 W	1750 W	3500 W
DC input voltage range	10.5 to 16.5 V 21.0 to 33.0 V			11.5 to 15.5 V 20.0 to 31.0 V	10.5 to 16.5 V 21.0 to 33.0 V		
AC input voltage range	216 to 244 V						
AC nominal output voltage	230 / 240 V			230 / 240 V			
Output waveform	Pure Sine Wave			Pure Sine Wave			
Input socket	IEC C14		IEC C20				
Output socket 1	IEC C13		IEC C19	AS/NZ 3112 10A GPO			
Output socket 2	AS/NZ 3112 10A GPO		AS/NZ 3112 15A GPO				
Dimensions (D × W × H)	423 × 261 × 126 mm	443 × 261 × 126 mm	467 × 318 × 131 mm	188 × 150 × 68 mm	330 × 200 × 83 mm	372 × 200 × 83 mm	443 × 248 × 83 mm
Weight	6.0 kg	6.8 kg	10.3 kg	1.6 kg	2.6 kg	3.26 kg	5.24 kg



NOTES



These products may have patent(s) granted and/or pending, design and eligible layout rights may also subsist. Scan the QR or visit: www.redarcelectronics.com/patent

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