

# COMPRESSED PRODUCT CATALOGUE 2023





## POWER, MONITOR AND CONTROL LIKE NEVER BEFORE.

REDARC's game-changing RedVision delivers an unprecedented level of control and automation for a camper, caravan, trailer or 4x4, right to your fingertips. Thanks to the modular system, pick and choose from a variety of power, distribution and monitoring products to create a unique solution that suits your needs. Control and monitor your entire setup right from your iOS or Android device through the modern, and user-friendly interface.

### ALL IN ONE PLACE.

Designed around the RedVision interface, get information and control straight to your fingertips thanks to the RedVision app, available on iOS and Android, that you can install on your smartphone or tablet.

### TRADE BENEFITS.

- Expandability
- Easily up sell components
- Decreased installation time and complexity
- Reduced component weight
- Improved service and support

### CUSTOMER BENEFITS.

- Modern, user-friendly interface
- Wireless information and control from mobile devices
- Easy to understand simple system layout
- Expandability
- REDARC quality

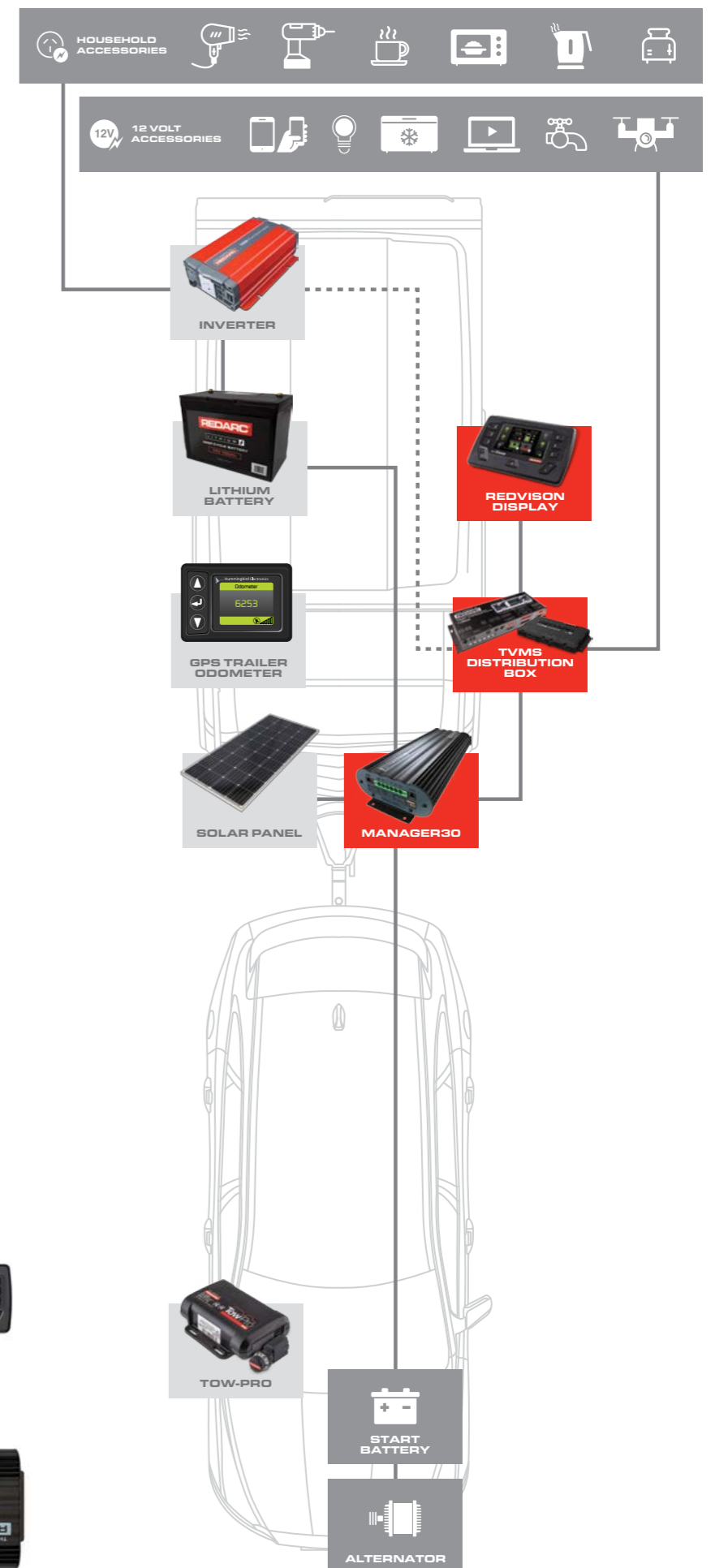
Design your RedVision System to suit your unique needs. Simply pick from REDARC's range of Distribution, Power and Display products, and through the RedVision interface, you'll have complete power and control of your on-board accessories.

This game-changing vehicle management system allows users to connect and operate a TVMS distribution box via the RedVision Display and Bluetooth app.

Switch things like lights, fridge, inverter, water pumps and more on or off, and monitor water levels, temperatures, power consumption and storage, using the wall display or the handy app on your phone.

### REDVISION MANAGER30 KIT. TVMSKIT05

The RedVision Manager30 Kit combines the innovative, award-winning RedVision interface with the iconic 30A Manager30 Battery Management System, to provide full control and monitoring of a full range of devices in a convenient package.



**DISPLAY.**



**TOTAL CONTROL AT YOUR FINGERTIPS.**

RedVision by REDARC provides an unprecedented level of control and automation to your 4x4, caravan, camper, RV or work vehicle. Control accessories such as lights, fridges, TVs, inverters via the physical screen or your Bluetooth connected mobile device.

**CONNECTIVITY WHEREVER YOU ARE.**

The RedVision Display provides connectivity to the RedVision smartphone app, allowing monitoring of the battery state of charge from your mobile device.

**OFF-GRID READY.**

The robust display has been built and tested to withstand the toughest environmental conditions, allowing control of multiple on-board devices, anywhere, anytime.

**ALL IN ONE AUTOMATION.**

With programmable soft-key buttons, the RedVision Display automatically controls multiple devices, acts as a master switch and disconnects non-essential loads to preserve and protect your batteries.

**REDVISION DISPLAY UNIT.**  
DISP4300-RC

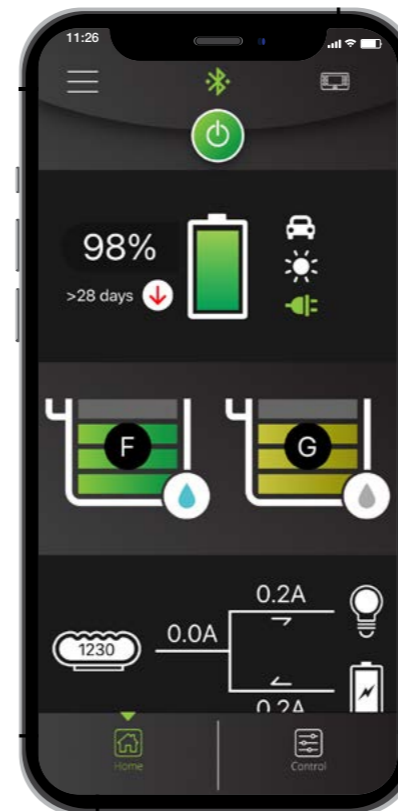
With a 4" colour LED display, programmable soft key buttons, and a user-friendly interface, the RedVision Display is the gateway to RedVision.

The robust display has been built and tested to withstand Australia's tough and varied environmental conditions and allows you to control multiple on-board devices as well as have visibility of water tank levels and battery power. You can add multiple displays to an existing RedVision system or upgrade your Manager30 to a coloured screen with the RedVision display.



**DISP4300-RC**

Operating temperature	-20° to 70°C
Storage temperature	-40° to 85°C
Weight	300g
Dimensions	178 x 108 x 26mm



**REDVISION USER APP.**

Designed with the end user in mind, the REDARC's RedVision interface is available on iOS and Android when you're away from the vehicle. Compatible with most phones and devices running iOS 12.0, Android 8.0 and Bluetooth 4.0 or later, the RedVision User app provides you with full access to control and monitor all your electrical on-board devices from the palm of your hand.



**REDVISION CONFIGURATOR APP.**

Designed with the installer in mind, the RedVision Configurator app allows you to fully customize your charger settings, distribution box inputs, output channels and control logic. Fully configure your Battery Management System, TVMS Distribution Box and RedVision Display to exactly how you need it.





## FLEXIBLE OFF-GRID CONTROL.

When paired with a Manager30 and RedVision Display, TVMS Prime and TVMS Rogue deliver complete control of multiple on-board devices. Control and program lights, fridges, inverters, water pumps, TVs and more, while monitoring temperatures as well as water and battery levels. With a robust display designed and tested for extreme conditions, the TVMS range is ready for whatever your next adventure throws at it.

### INTUITIVE REDVISION CONNECTIVITY.

Integration of REDARC's TVMS into your setup allows for the use of REDARC's system control and monitoring interface, RedVision. Control is at your fingertips thanks to the iOS and Android ready, RedVision app.

### OFF-GRID POWER PROTECTION.

Control your devices anywhere, anytime, and have the confidence that your system is safe. It's easier and quicker than ever to replace fuses and get your adventure back on, or off the track.

### FLEXIBLE HARDWARE SOLUTIONS.

No build is too big or too small. REDARC's TVMS range has a solution for any size off grid setup. Expand your capabilities and combine both the TVMS Prime and Rogue in your build to get control like never before.



### TVMS PRIME (AND REDVISION DISPLAY). TVMS1280

With 5x 30A and 5x 10A outputs and a maximum battery current of 80A, the TVMS Prime is the ideal power distribution solution when controlling a mix of low and high-powered devices.

On-board, easily accessible fuses make maintenance and troubleshooting easy while two digital tank level inputs are compatible with REDARC's own tank level sensors.

For the ultimate accessory control solution, combine the TVMS Prime and Rogue units together for a total of 20x output channels.

#### FEATURES:

- 5x 30A outputs for direct control of high powered devices
- 5x 10A outputs
- Easily accessible fuses
- Includes RedVision display
- Streamlined installation and configuration
- Fully programmable

### TVMS ROGUE. TVMS1240

At just 25mm thick and with in-built smart fuses, the TVMS Rogue offers a compact and flexible centralised power control solution for caravan, camper and 4x4 applications.

Set the mood with 10x 10A dimmable outputs, the perfect solution for controlling and programming on-board lighting and low powered devices such as fridges, fans, water pumps and accessory sockets. 8x switch inputs allow physical switches to be easily installed around the vehicle.

Two analogue tank level inputs offer accurate tank level information and are compatible with common tank level sensors.

#### FEATURES:

- 10x 10A dimmable outputs
- 8x inputs allow for use with physical switches
- Compact size
- On-board smart fuses
- Streamlined installation and configuration
- Fully programmable
- Accurate analogue tank level inputs



TVMS1280



TVMS1240

Power input voltage	9 - 16V	9 - 16V
Maximum output current	80A	40A
Output channels	5 x 10A and 5 x 30A	10 x 10A
Sensor inputs	6 tank level , 2 temp, 1 voltage	2 configurable analogue inputs
Operating temperature	-20° to 60°C	-20° to 70°C
Storage temperature	-40° to 85°C	-40° to 80°C
4.3" display included	Yes	No
Temperature sensors included	Yes	No
Weight	2.0kg	0.43kg
Dimensions	385 x 138 x 58mm	250 x 130 x 25mm

Higher charge currents can be used but not run through the distribution box.



POWER.



## POWER FOR ANY ADVENTURE.

Keep your battery charged and the adventure going by adding a REDARC power solution to your system.

Get live state of charge information with the Manager30's RedVision screen, add a REDARC Pure Sine Wave Inverter to use 240V devices, have unrivalled power storage with lithium batteries or add solar for unlimited power from the sun.

### UNIQUE CHARGING PROFILES.

With optimised charging profiles to ensure your batteries are charged at the correct voltage and current levels, REDARC's Manager30 and BCDC range will keep your adventure going.

### GREEN POWER PRIORITY.

If 12V solar power is available, the Manager30 and BCDC range will charge using solar power before topping up the output charging current from another source such as mains power or DC vehicle power.

### FLEXIBLE HARDWARE SOLUTIONS.

With DC to DC charging, AC charging, solar solutions, inverters and more, whatever your needs are, there's a REDARC power solution that integrates smoothly with RedVision.

### MANAGER30.

BMS1230S3R

With AC, DC and solar charging as well as both the RedVision screen and mobile phone connectivity via Bluetooth, the Manager30 offers the complete battery management solution.

The Manager30 operates like six products in one - it charges auxiliary battery from the vehicle while on the move, it's an AC charger, a solar regulator, a battery isolator, load disconnect controller and battery monitor via the RedVision screen.

For specifications and more information, see page 72.

### BCDC RANGE.

Compact and reliable DC to DC battery chargers suitable for most battery types including lithium.

Featuring a Maximum Power Point Tracking (MPPT) solar regulator, dual input models can charge from both solar and the alternator simultaneously.

Choose the BCDC Classic for rugged under-bonnet installations or the BCDC Core for in-cabin installations where waterproofing isn't a necessity.

For specifications and more information, see page 48.

### LITHIUM BATTERY RANGE.

12V systems are only as good as their batteries, and REDARC Lithium Deep Cycle Batteries are the ultimate in deep-cycle battery technology delivering unrivalled performance and battery life.

Featuring fast charging, a long lifespan and zero maintenance.

REDARC's LiFePO<sub>4</sub> batteries are available in capacities ranging from 60Ah to 200Ah and include an internal Battery Management System.

For specifications and more information, see page 76.

### SOLAR RANGE.

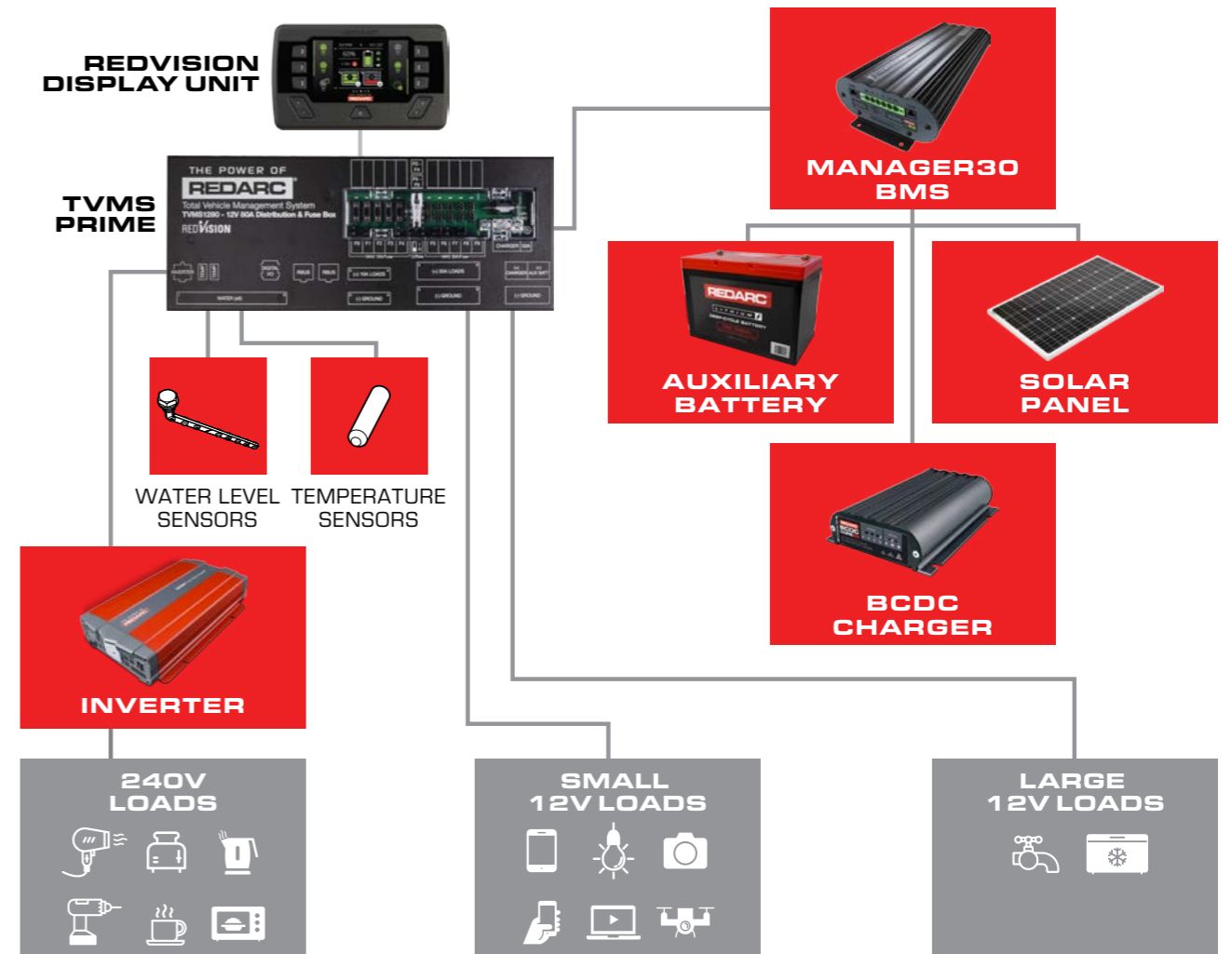
Harness the power of the sun with flexible solar blankets, portable folding panels and permanent fixed panels available in 50 to 300W capacities.

For specifications and more information, see page 88.

### INVERTER RANGE.

Use your 240V devices with the addition of a REDARC Pure Sine Wave Inverter to the RedVision ecosystem. Pure sine wave ensures a smoother, more efficient running of appliances including laptops, power tools, kettles and more. Take electrical devices anywhere and get the same type of 240V power you get at home.

For specifications and more information, see page 80.



**TOW-PRO ELECTRIC BRAKE CONTROLLERS.**



**STOPPING POWER ON YOUR OWN TERMS.**

There's only one real choice when it comes to electric braking for your caravan or trailer. Tow Pro is Australia's most popular electric brake controller, setting the benchmark for easy-to-use, safe braking on caravans, trailers, camper trailers and boat trailers.

**SMOOTH BRAKING CAPABILITY.**

The Tow-Pro is designed to provide smooth safe braking regardless of the trailer or the terrain on which it is being towed. You can rest assured that you're in control.

**COMPATIBLE WITH ALL MODERN VEHICLES.**

Used with the recommended REDARC wiring kits, Tow-Pro Elite ensures compatibility with all new technologies. It works in 12 and 24V vehicles to control electric and electric/hydraulic braking systems.

**EASY TO INSTALL BRAKE CONTROLLER.**

The Tow-Pro Elite remote head is designed to be mounted at a distance from the main unit, allowing for a neat, convenient installation without impeding on lower leg airbags or driver leg room.

REDARC's range of Tow-Pros can be seamlessly mounted in a switch-bank or dashboard, overcoming the possible interference that traditional brake controllers have with lower airbags, and the intrusion on the driver's leg space.



**TOW-PRO ELITE V3.**  
EBRH-ACCV3

The Tow-Pro Elite provides users with the ability to swap between Proportional mode (inertia sensing) for highway driving conditions and User-controlled mode, popular for off-road driving. The main unit is installed behind the dash, providing a subtle, factory finish to match your interior.



**TOW-PRO CLASSIC.**  
EBRHV2

The Tow-Pro Classic Electric Brake Controller offers a single User-controlled braking mode. At the turn of a dial, the Tow-Pro Classic gives the driver complete control of the brake level whether the foot brake or override is applied.

**FEATURES:**

- Smooth trailer braking response
- Proportional and User-controlled braking modes
- Factory look remote head
- AL-KO ESC and Dexter Sway Control System compatible
- Electric or electric/hydraulic operation
- Safe braking at your fingertips
- The main unit is installed out of sight

**LED DIAL.**

The illuminated LED dial shows you the current status at a glance, so you can keep your eyes on the road.



**BLUE LED - PROPORTIONAL**

Trailer brakes are applied proportional to the vehicle. The harder you brake, the harder the trailer brakes.



**GREEN LED - USER-CONTROLLED**

Trailer brakes will be applied at the level set. 0 is no trailer braking, 10 is full trailer braking.





**RED LED - BRAKES APPLIED**

Braking force is indicated by the LED changing to different shades of red when the brakes are applied.

**APPLICATIONS.**

- Electric brakes required for trailers over 750kg (Aus)
- Smoother trailer braking
- Two modes of braking, perfect for towing vehicles that are used both on and off road, such as 4WDs

	 <b>ELITE V3</b>	 <b>CLASSIC</b>
Proportional Mode (inertia-sensing)	✓	
Off-road mode - User-controlled Mode	✓	✓
Active Calibration	✓	
Dash-mounted control knob	✓	✓
Control knob meets ADR21 safety standards	✓	
Suitable for 12V systems	✓	✓
Suitable for 24V systems	✓	
Operates electric and electric/hydraulic brakes	✓	✓
AL-KO ESC & Dexter Sway Control System approved	✓	✓
Australian made and designed	✓	✓



**DC TO DC CHARGING RANGE.**



**CHARGED AND READY FOR ADVENTURE.**

No matter the battery type, REDARC have the ideal charging solution for your auxiliary battery with an advanced range of DC to DC battery chargers. Compact in size, REDARC's BCDC charging range suit a variety of applications, from engine bay to cabin, or in a caravan or trailer.

These chargers are designed to protect your start battery from excessive discharging during multi-battery systems, and are perfect for both commercial and recreational applications.

**COMPACT AND RELIABLE.**

The extensive BCDC range is designed and manufactured in Australia for Australian conditions and features the high quality and reliability that comes with every REDARC product.

**ALL THE VERSATILITY YOU NEED.**

The BCDC range can source power from 12 and 24V alternators plus 12V nominal solar panels and is compatible with all common 12V lead acid or LiFePO<sub>4</sub> lithium auxiliary batteries.

**CHARGE FROM MULTIPLE SOURCES.**

The Green Power Priority Technology allows dual input models to charge from the vehicle's alternator and solar simultaneously. Your batteries will always be fully charged.

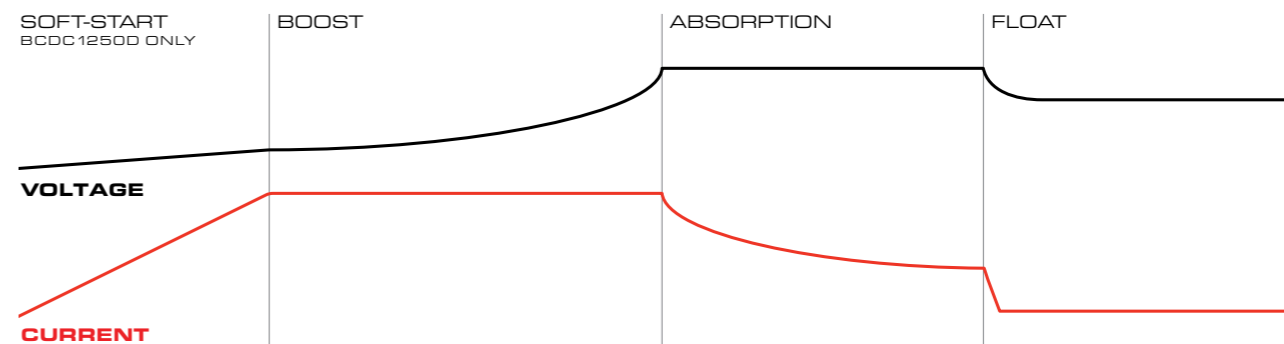
**MULTI-STAGE CHARGING PROCESS.**

The BCDC range of DC to DC chargers feature a multi-stage charging process designed to charge batteries to 100%, regardless of their type. By providing unique charging profiles to each specific battery type, these DC to DC chargers are able to achieve and maintain an optimal charge in auxiliary batteries at all times.

For the BCDC1250D, this process begins with an additional stage. 'Soft-Start' turns the charger on slowly, providing an increased current flow to the auxiliary battery over a short period. From there, the charging process is the same for all BCDCs.

The 'Boost' stage provides maximum current until the battery reaches its predetermined 'Absorption' voltage. The BCDC will then remain in the 'Absorption' stage, holding its voltage until the battery is 100% charged. From there, the BCDC enters the 'Float' stage, where it retains a full charge until the auxiliary battery voltage falls below a predetermined threshold. It will then recommence the 'Boost' stage.

Throughout the charging process, the BCDC constantly monitors the main vehicle battery. During these charging stages (including 'Float') the BCDC can supply loads (up to the maximum current output) without necessarily switching back to the 'Boost' stage, protecting the battery from overcharging.



Large capacity battery banks may require a few cycles to fully charge.

**THE BCDC DUAL BATTERY CHARGER RANGE.**

The extensive range of BCDC Dual Battery Chargers are designed and manufactured in Australia for Australian conditions. Regardless of which charger you choose, you'll be assured of the high quality and reliability that comes with every REDARC product.

**BCDC CORE DUAL INPUT.**

Page 50



**CORE25**  
BCDCN1225



**CORE40**  
BCDCN1240

**BCDC CLASSIC DUAL INPUT.**

Page 52



**CLASSIC25**  
BCDC1225D



**CLASSIC40**  
BCDC1240D



**CLASSIC50**  
BCDC1250D

**BCDC 24V SINGLE INPUT.**

Page 56



**BCDC2420**



**BCDC2420-LV**



**LFP2420**



**LFP2420-LV**

**BCDC DC ONLY.**

Pages 58-62



**BCDC1212T**



**BCDC1220**  
**BCDC1220-IGN**



**BCDC1206**



## SMART START DUAL BATTERY ISOLATORS.



## SIMPLE OFF-GRID POWER.

REDARC's microprocessor-controlled Smart Start Battery Isolators (SBI) are designed to protect the start battery from excessive discharge, while allowing the auxiliary battery to power non-essential loads. Featuring sophisticated fault detection and LED indication, users are warned of faults including over-voltage, voltage drop and excessive current-draw conditions.

### SIMPLE TO INSTALL.

Smart Start Battery Isolators are easy to install and compact in size, so they can be fitted in an out-of-the-way location in your engine bay. Once it's installed you'll forget it's even there.

### A MODEL TO SUIT EVERY REQUIREMENT.

Dual sensing models allow the start battery to charge from the auxiliary battery's charging source. Load disconnect models stop non-essential loads from discharging the battery in BMS/lithium setups.

### A RANGE OF VOLTAGE AND CURRENT RATINGS.

Smart Start Battery Isolators are available in four models: 12 or 24V, incorporating 100 or 200A continuous ratings. No matter what vehicle you have, there's a model to suit.

Get the most out of your batteries with REDARC's state-of-the-art dual battery isolators. These dual battery isolators are designed to significantly extend battery life and safely charge auxiliary batteries.

### DUAL SENSING MODELS (SBIXXD).

Dual sensing models isolate the start and auxiliary batteries where the auxiliary battery may be charged by an external source such as solar.

The start battery is charged by the external source once the auxiliary battery reaches 13.2V.

Dual sensing models operate as standard SBIs when the start battery terminal of the SBI receives a voltage higher than 13.2V (in a 12V system) or 26.4V (in a 24V system).



## SBI ACCESSORIES.

### SMART START BATTERY ISOLATOR & WIRING KIT 12V.

SBI12KIT



Includes everything required to install a Smart Start Dual Battery Isolator, the SBI12KIT features high quality, MTA 60A fuses and fuse holders with the corresponding ring terminals already attached to the wires.

### CUSTOMISABLE SMART START BATTERY ISOLATOR.

SBI-X



REDARC can create a custom isolator, tailored to suit any application. An SBI-X can be customised in 12 or 24V, 100 and 200A options.

### FEATURES:

- On/off voltages between 9 and 15V on 12V models or 18 and 30V on 24V models
- Programmable on/off delays
- Programmable on/off override trigger

### FEATURES:

- Overmould design
- Compact in size
- Easy to install
- Silver contacts for longer life and suitability for marine applications
- Power-saving technology
- Fault indication
- Fully surge-protected

### APPLICATIONS:

- Prevents your auxiliary battery draining your start battery
- Suitable for harsh environments
- Charge your auxiliary battery whilst driving
- Jump starter for start battery failure
- Link batteries to power a winch



SBI12/SBI12D



SBI24/SBI24D



SBI212/SBI212D



SBI224/SBI224D

	SBI12/SBI12D	SBI24/SBI24D	SBI212/SBI212D	SBI224/SBI224D
System voltage	12V	24V	12V	24V
ON voltage	13.2V	26.4V	13.2V	26.4V
OFF voltage	12.7V	25.4V	12.7V	25.4V
Turn ON delay	5 seconds	5 seconds	5 seconds	5 seconds
Turn OFF delay	10 seconds	10 seconds	10 seconds	10 seconds
Maximum continuous current	100A	100A	200A	200A
Maximum inrush current	400A	400A	600A	600A
Standby current	<5mA	<5mA	<5mA	<5mA
Standards	CE, C-Tick, AS/NZS CISPR11:2004			
Dimensions	75 x 70 x 80mm	75 x 70 x 80mm	90 x 95 x 100mm	90 x 95 x 100mm
Weight	200g	200g	600g	600g
Warranty	Two years	Two years	Two years	Two years





## MANAGER30 BATTERY MANAGEMENT SYSTEM.



THE MANAGER



## INFINITE POWER FOR ENDLESS ADVENTURE.

REDARC's state-of-the-art Battery Management System is designed to charge and maintain auxiliary batteries in recreational vehicles, caravans and camper trailers.

This 6-in-1 solution that can simultaneously charge from 240V AC mains power, your vehicle's alternator and solar, as well as featuring a dual battery isolator, load disconnect controller and remote battery monitor. It can charge all common automotive batteries, including lithium.

### CHARGE FROM MULTIPLE SOURCES.

With the ability to accept charge from three different sources, mains AC, vehicle DC and solar, you'll be able to charge for more hours in the day, no matter what you are doing.

### GET THE MOST FROM THE SUN.

Thanks to its built in MPPT solar regular and Green Power Priority, the Manager30 will prioritise solar power before topping up the output charging current from another source, such as mains power.

### SEE WHERE YOU'RE AT, QUICKLY AND EASILY.

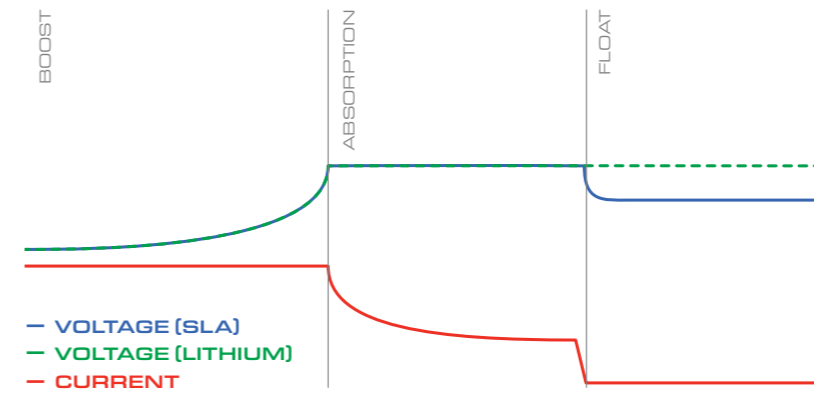
The Manager30 comes with a choice of displays designed to give your battery information and charge status along with critical system information while charging.

### MULTI-STAGE CHARGING PROCESS.

Two different multi-stage DC to DC charging profiles fully charge auxiliary batteries. Sophisticated fault detection sensors monitor the battery conditions during all stages of charging, keeping you and your caravan/camper safe.

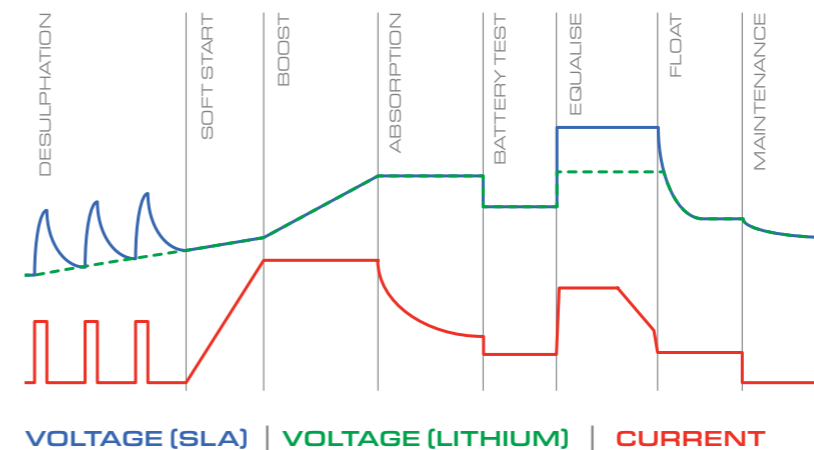
### TOURING MODE.

Designed for use on the road, touring mode offers a three stage charging profile comprising boost, absorption and float. Touring mode will charge your auxiliary battery to its optimal level whilst allowing you to run multiple loads from the battery.



### STORAGE MODE.

Designed to keep your auxiliary battery charged whilst your caravan/camper is in storage by using an eight stage charging profile.



### FEATURES:

- Multi Stage AC to DC Battery Charger
- Multi Stage DC to DC Charger
- Battery type-specific charging
- Suitable for 12 and 24V vehicle charging systems
- Maximum Power Point Tracking Solar Regulator
- Dual Battery Isolator
- Load Disconnect Controller
- Tested to mains power safety standards in Australia

### APPLICATIONS:

- Designed to charge and maintain auxiliary batteries in recreational vehicles, caravans and camper trailers
- Fully automatic, set and forget solution
- Provide user with battery information at their fingertips
- Never be without charge thanks to AC, DC and solar charging capabilities

### REMOTE BATTERY MONITOR OPTIONS.

The Manager30 comes with a choice of displays designed to give you house battery information and charge status, along with critical system information, while charging is in progress.

### MANAGER30 WITH STANDARD DISPLAY. BMS1230S3



The BMS1230S3 is supplied with the standard monochrome remote monitor which provides information such as state of charge, current, voltage and temperature as well as a simplified battery percentage and charge rate.

### MANAGER30 WITH REDVISION DISPLAY. BMS1230S3R



The BMS1230S3R is supplied with the RedVision display and provides connectivity of the Manager30 to the RedVision interface, allowing monitoring of the battery state of charge from your mobile device.



**LITHIUM BATTERIES.**



**MORE POWER TO YOU.**

REDARC's range of Lithium deep cycle batteries is the last word in deep-cycle battery technology, delivering unrivalled performance and battery life. Lightweight, with huge capacity, these 12V lithium battery options deliver longer-lasting power, and they are built to survive and thrive in Australia's toughest conditions.

**BUILT POWERFUL FOR HEAVY LOADS.**

They're fast charging and they last up to eight times longer than traditional acid-based batteries. Best of all, they have zero maintenance requirements so you can just sit back and relax.

**A WIDE RANGE OF CAPACITIES.**

REDARC have a wide range of lithium batteries, with models available in capacities ranging from 60Ah to a massive 200Ah so there's a size to suit your needs and your budget.

**BUILT IN BATTERY MANAGEMENT.**

REDARC's lithium batteries feature an internal Battery Management System enabling them to be connected together in parallel, increasing your power storage for even longer off-grid stays.

**FEATURES:**

- Fast charging, feature a long lifespan, are lightweight and low maintenance
- Built-in Battery Management System
- Protection from over-charge, over-discharge and short-circuit

**APPLICATIONS:**

- Power additional accessories like portable fridges and camping lights
- Compatible with RedVision, Manager30 and BCDC for ultimate charging, monitoring and control of your off-grid setup
- Configure in a parallel connection for increased energy storage



**60AH SLIMLINE BATTERY.**  
LBAT12060

A space-saver that packs a punch! A great solution for people that use their SUVs, dual cab utes and courier vans for work and adventure, but do not have the space for bulky batteries.

You can parallel up to four of these batteries to satisfy higher power demands and add an inverter. You can make these additions whenever you like. Start small and expand as needed.



**100AH STANDARD BATTERY.**  
LBAT12100

Constant and true power for low draw appliances. A great choice for people who want to run low powered devices on weekend getaways and day trips.

You can parallel up to six of these batteries to satisfy higher power demands and add an inverter. You can make these additions whenever you like. Start small and expand as needed.



**100AH HEAVY DUTY BATTERY.**  
LBAT12100-HD

A powerful choice for power-hungry appliances. Excellent for higher power needs off-grid. If you rely on 240V appliances that need a higher current, this battery can handle a larger inverter so you can keep your essentials running.

You can parallel up to six 100Ah-HD batteries to satisfy higher power demands and add an inverter. You can make these additions whenever you like. Start small and expand as needed.



**200AH BATTERY.**  
LBAT12200

Whether you're heading out in your caravan, RV or fully-kitted 4WD, these 200Ah batteries provide energy storage to the max. If you rely on 240V appliances that need a higher current, this battery can handle a larger inverter so you can keep your essentials running.

You can parallel up to six of these batteries to satisfy higher power demands and add an inverter. You can make these additions whenever you like. Start small and expand as needed.



## PURE SINE WAVE INVERTERS.



## FIND POWER ANYWHERE.

Use your electrical devices anywhere, anytime with the same type of 240V power you'd get at home.

Producing a pure sine wave, REDARC's Pure Sine Wave Inverters ensure smoother, more efficient running of appliances like laptops and phone chargers, power tools, heaters, kettles and more.

### SIMPLE TO INSTALL.

Slimmer and lighter than other inverters, REDARC Pure Sine Wave Inverters fit and work comfortably anywhere. You can pack them away after use or permanently mount them in your rig for convenience.

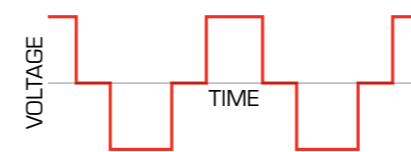
### RELIABLE AC POWER FROM ANY DC INPUT.

REDARC Pure Sine Wave Inverters have a wider input voltage range and multiple levels of protection, including overload, short-circuit and a load-controlled cooling fan.

### A RANGE OF SIZES AND POWER RATINGS.

No matter the power draw of your appliance... whether it's charging your laptop or making your morning coffee with an espresso machine, REDARC has a 12 or 24V inverter to suit.

## MODIFIED SINE WAVE INVERTERS VERSUS REDARC PURE SINE WAVE INVERTERS.

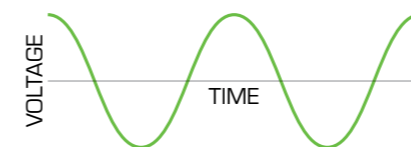


### MODIFIED SINE WAVE.

Cheaper inverters try to imitate a sine wave by 'chopping off' the corners of a square wave, creating a modified square wave.

Modified sine wave inverters can often lead to appliances overheating. This is due to the square wave having faster switching times on each polarity change, which stresses appliances designed for pure sine wave.

Light bulbs and shunt motors may be able to run on a modified sine wave but for many other appliances this will not be sufficient.



### 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.

The change in a pure sine wave is smooth and gradual, ensuring the correct functioning and efficient operation of high end electronic equipment.

### FEATURES:

- Pure sine wave output
- Input and output fully isolated
- Multiple levels of protection; overload, short circuit and over temperature and load-controlled cooling fan
- Appliances will run smoothly and efficiently, producing less heat and noise

### APPLICATIONS:

- Take all the comforts of home wherever you travel
- Designed to run any 240V equipment efficiently and effectively
- Power your tools of the trade, whether that's a drill, a camera or a laptop
- Power sensitive equipment like laptops and tablets

### PURE SINE WAVE INVERTER ACCESSORY.

#### INVERTER REMOTE REMOTE-RS



This handy on/off switch allows control of your inverter from any convenient location.

### REDVISION INTEGRATION.

REDARC's RedVision features a dedicated inverter channel allowing for control of a REDARC RS series Pure Sine Wave Inverter through RedVision, either via a smartphone or RedVision Display.

Customise the channel details, settings and logic configuration via the RedVision Configurator app.





## GO EXPLORE.

The GoBlock by REDARC is both a portable power source and a flexible in-vehicle dual battery system, capable of powering your electronics and accessories when you're on the road.

This system is built tough for the most rugged and distant off-grid adventure, yet suitable for practically any vehicle, from cars and vans to 4WDs.

### DESIGNED TO LAST LONGER.

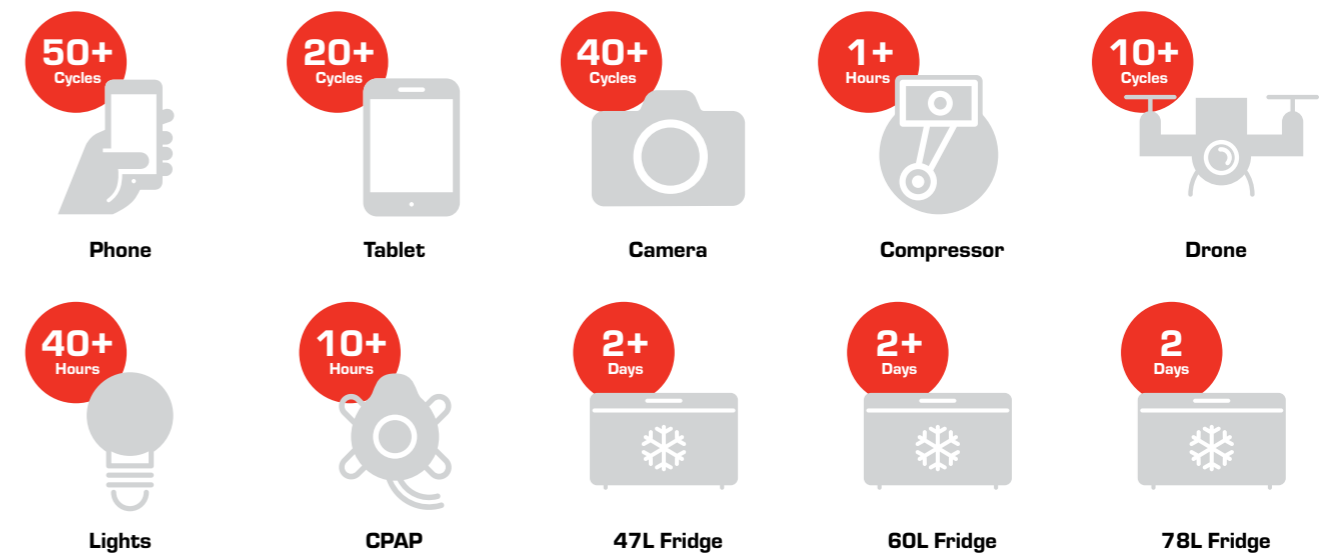
Featuring lithium iron phosphate (LiFePO<sub>4</sub>) cells, the GoBlock has been designed to deliver over 2,000 cycles, up to four times more charge cycles than other portable power stations on the market.

### POWER A WIDE VARIETY OF DEVICES.

With USB, accessory, Merit, fridge and Anderson outputs, the GoBlock is ideal for charging phones, games, cameras and drones, and running lights, compressors, a portable fridge and more.

### WIRELESS MONITORING.

GoBlock is RedVision-enabled, giving you remote access to battery state of charge, system diagnostics, input source information and the Start Battery Recovery feature, from the palm of your hand.



### FEATURES:

- AC charger and 50A DC to DC charger
- 50A MPPT solar regulator
- Quality LiFePO<sub>4</sub> battery cells
- REDARC battery management system
- RedVision compatibility
- Start battery recovery capability
- Aluminium battery housing
- Charging outlets for 12V accessories, Anderson™ and USB

### APPLICATIONS:

- Built tough for off-grid adventurers
- Ideal for vehicles that do not have room for a traditional dual battery system
- Perfect for commercial and recreational applications

### GO TOUGH.

Designed and built for outdoor use, GoBlock can operate within a wider temperature range so it'll perform in extreme conditions without compromising performance. There are no fans or exposed parts, allowing you to take it everywhere without worrying about wind, moisture, dust or grime (IP52 rating).

### GO SAFE.

The GoBlock includes a start battery recovery feature which enables you to safely charge a vehicle's start battery. Get out of trouble and back on the road quickly with this unique vehicle battery recovery capability.

### GO OFF-GRID.

The GoBlock features no fans or exposed components and offers flexible charge options. Pre-charge your devices with 7.5A AC mains, or on the go using the DC accessory socket charger. It will also accept up to 50A input from a power source via an Anderson plug, including solar.

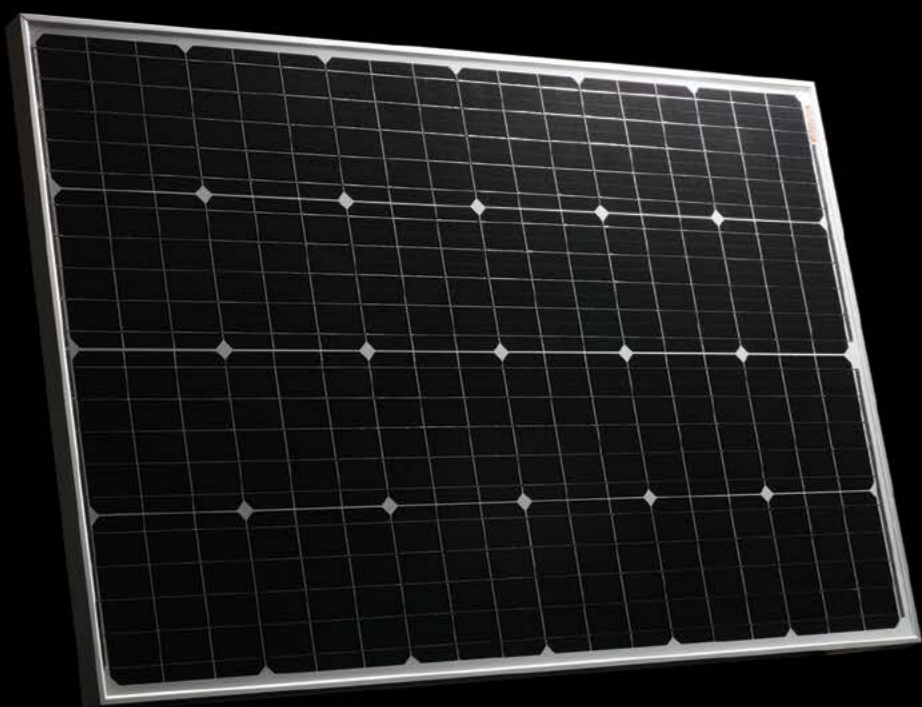
### GO WIRELESS.

GoBlock features connectivity to REDARC's RedVision interface. Connect to REDARC's RedVision smartphone app (IOS 12 and Android 8 compatible) via Bluetooth to gain remote access to the battery state of charge, system diagnostics and input source information.

### TRADITIONAL DUAL BATTERY SETUP VERSUS GOBLOCK+POWERDOCK.

	DUAL BATTERY	GOBLOCK
Easy standard installation	✗	✓
Portable - move between your car, boat, camp and trailer	✗	✓
Neat and compact – battery, cabling, DC to DC charger and connectors inside the unit	✗	✓
Plug and play connectors ready to go	✗	✓
Safely recover your (or a mate's) start battery	✗	✓
Charge back to the start battery when the auxiliary is charged and mains or solar is available	✗	✓
Warranty	?	Two years

**SOLAR RANGE.**



**MORE STAYING POWER.**

Harness the power of the sun with flexible solar blankets, portable folding panels and permanent fixed panels available in 50 to 300W capacities and supported by a complete range of accessories.

REDARC's solar panels are built using the highest quality materials for the toughest conditions and come in a range of styles and sizes.

**FLEXIBLE SOLAR SOLUTIONS.**

Designed to complement your current battery charging system, these fixed solar panels can either be temporarily or permanently mounted to the top of your caravan, RV or camper-trailer.

**HIGH QUALITY CONNECTORS.**

REDARC solar range features industry-standard, genuine Anderson™ SB™ 50 connectors for a simple and fast connection, with no screw terminals and removing the risk of poor connections.

**GET THE COMPLETE SOLAR SYSTEM.**

The range of solar solutions offer regulators and monitors, to convert the sun's power, along with an extensive range of solar cables and connectors for easy connection to the solar range.

**MONOCRYSTALLINE FIXED PANELS.**

Fixed panels are the most cost-effective, set and forget solution for caravans and camper trailers.

Being fixed to your car, camper trailer or caravan, these panels are the ultimate no fuss solution.

They're available in sizes from 50 to 200W, offering plenty of flexibility when designing a setup to fit your roof.

**MONOCRYSTALLINE FOLDING PANELS.**

These next-generation folding solar panels are a small, ultra-lightweight solution and quick and easy to set up.

Ideal for those who travel a few times a year, and value ease of use, value and flexibility.

Available in 120 and 200W options, they feature adjustable legs, so the panels can be angled towards the sun and conveniently moved as required.

**SOLAR BLANKETS.**

Perfect for when space is at a premium, these flexible and convenient solar blankets are available with monocrystalline or amorphous solar cells.

Whichever you choose, they can be folded up into a neat package, offering flexibility that's not available with fixed or folding panels.

You can drape it over the bonnet, lay it on the ground or hang it from the awning.

Then, when it's time to hit the road, they can be folded up to fit under the car seat.

**THE SOLAR RANGE.**

**FIXED MONOCRYSTALLINE SOLAR PANELS.**

Page 90



**50W**  
SMSP1050

**80W**  
SMSP1080

**120W**  
SMSP1120

**180W**  
SMSP1180

**200W**  
SMSP1200

**FOLDING MONOCRYSTALLINE SOLAR PANELS.**

Page 92

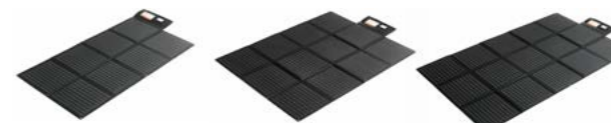


**120W**  
SPFP1120

**200W**  
SPFP1200

**MONOCRYSTALLINE SOLAR BLANKETS.**

Page 94



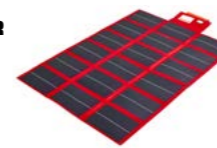
**160W**  
SMFB1160

**240W**  
SMFB1240

**300W**  
SMFB1300

**AMORPHOUS SOLAR BLANKET.**

Page 94



**112W**  
SAF1112



## SMARTCHARGE AC BATTERY CHARGER RANGE.



## LEADING THE CHARGE.

Compact and easy to use, the REDARC range of Smartcharge AC Battery Chargers ensure your vehicle's batteries are fully maintained, charged and always ready to go.

Designed to automatically charge and maintain most common 12V automotive batteries, REDARC's AC chargers are compatible with common automotive battery types including lithium. They automatically adjust to suit the battery voltage and type in any caravan, car or boat.

### THEY'RE CALLED SMART FOR A REASON.

REDARC's AC Battery Chargers give you peace of mind because you know your battery is getting the right amount of charge, without the risk of overcharging, leading to longer, more reliable battery life.

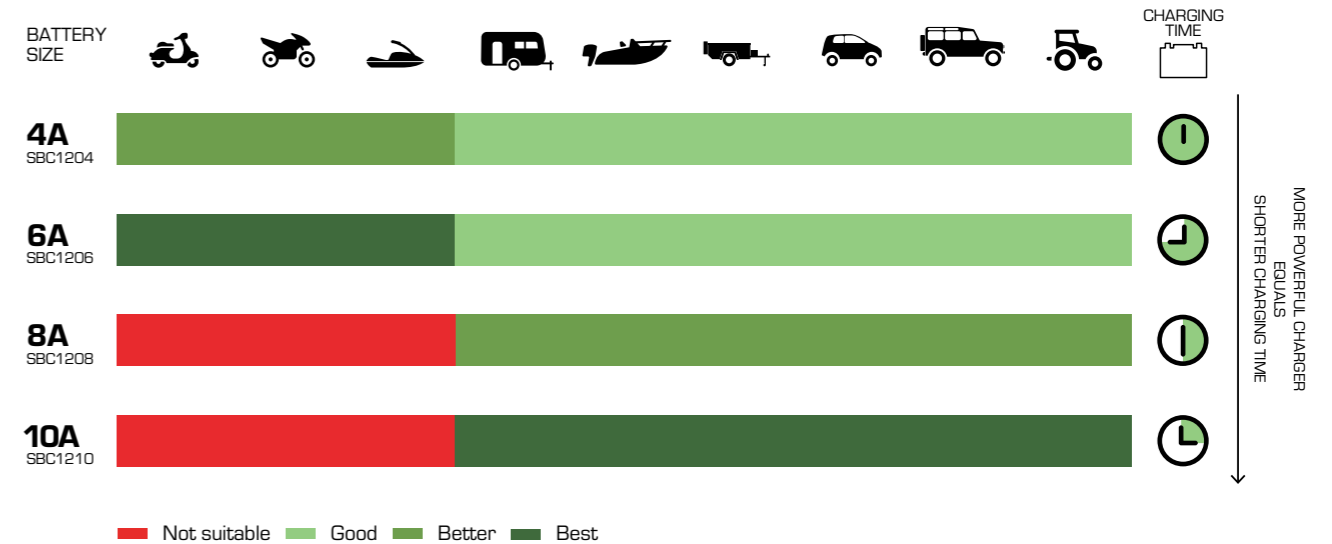
### STAY FULLY CHARGED AT ALL TIMES.

All you need to do is plug it in, clip it on and turn it on to keep your 12V vehicle or secondary battery healthy, fully charged and always ready to go. You'll never be caught out with a flat battery again.

### BUILT FOR A RANGE OF APPLICATIONS.

REDARC SmartChargers are rated to IP65 and are available in 4, 6, 8 and 10A models. Wherever you want to use it, whatever you want to charge with it, there's one to suit your needs.

## CHOOSE THE RIGHT SMARTCHARGE FOR YOUR NEEDS.



## SMARTCHARGE ACCESSORIES.



### 12V CHARGING KIT. SBC12ACC1-4

An easily mountable charging cable with 12V input, that can be permanently mounted to a battery using ring terminals.



### 12V CHARGING CABLE WITH RING TERMINALS. SBC12ACC1-5

Cable with ring terminals designed for easy battery charging and monitoring with the range of SmartCharge Battery Chargers.



### 12V CHARGING CABLE WITH CLAMPS. SBC12ACC1-6

Cable with clamps designed for easy battery charging and monitoring with the range of SmartCharge Battery Chargers.



	SBC1204	SBC1206	SBC1208	SBC1210
Maximum output current	4A	6A	8A	10A
Power consumption	60W	115W	132W	175W
Battery size	12V/2-110Ah	12V/2-150Ah	12V/20-200Ah	12V/30-250Ah
Input	230V AC 50-60Hz	230V AC 50-60Hz	230V AC 50-60Hz	230V AC 50-60Hz
Inverse current	<1mA	<1mA	<1mA	<1mA
Output voltage	14.4/14.7V	14.4/14.7V	14.4/14.7V	14.4/14.7V
IP class	IP65	IP65	IP65	IP65
Dimensions	210 x 90 x 54mm	210 x 90 x 54mm	235 x 90 x 54mm	235 x 90 x 54mm
Weight	735g	735g	750g	750g
Warranty	Five years	Five years	Five years	Five years

### FEATURES:

- Simple, one-button activation
- Battery status monitoring in the display
- Secured against short circuits and reverse polarity
- Integrated cable storage solution
- Temperature-compensated charging cycle

### APPLICATIONS:

- Ideal for maintenance charging
- Perfect for caravans, cars and boats as it automatically adjusts to suit the battery voltage and type



52MM GAUGES.



MONITOR WHAT MATTERS.

REDARC gauges monitor vehicle health like battery voltage, current draw, exhaust gas temperature (EGT), manifold boost and vacuum pressure, oil pressure and a range of temperatures - outside, cabin, oil, water, coolant and fridge temperatures. This extensive range of LCD/LED gauges combine dual or triple functions in the one 52mm gauge.



**VOLTAGE GAUGES.**

Monitors the charging performance of main and/or auxiliary battery. Ideal for battery systems installed in 4WDs, campers, caravans, motorhomes.

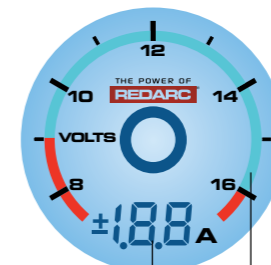
**G52-VA.**

Measures one voltage level. The voltage is indicated on a 270° sweep gauge indicating between 7.5 and 16.5V.

**G52-VVA.**

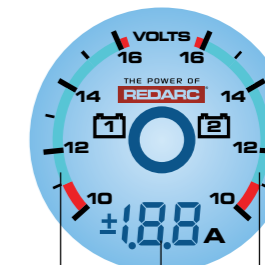
Measures the voltage levels of two 12V batteries. Each battery voltage is indicated on a 120° sweep gauge indicating between 10 and 16V.

**SINGLE VOLTAGE. G52-VA**



Optional digital current meter ±100A  
Voltage gauge 270° sweep 7.5 to 16.5V

**DUAL VOLTAGE. G52-VVA**



Battery 1 120° sweep 10 to 16V  
Optional digital current meter ±100A  
Battery 2 120° sweep 10 to 16V

**TEMPERATURE GAUGES.**

Monitors your engine's oil and/or water (coolant) temperature. Used for monitoring engine oil and/or water (coolant) temperature.

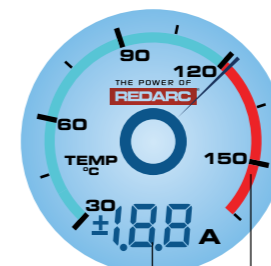
**G52-TA.**

Measures from 30° to 160°C and is equipped with an optional ±100A rated current display that monitors the amount of current to or from a battery.

**G52-TTT.**

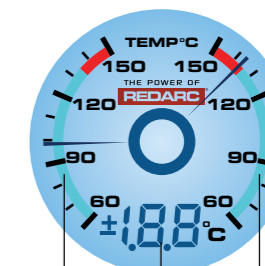
Measures from 60° to 150°C. The G52-TTT gauge also supports one of four optional temperature sensors.

**SINGLE TEMPERATURE. G52-TA**



Optional digital current meter ±100A  
Temp gauge 120° sweep 60 to 150°C

**DUAL TEMPERATURE. G52-TTT**



Temp gauge 120° sweep 60 to 150°C  
Optional digital temp reading -20 to +170°C  
Temp gauge 120° sweep 60 to 150°C

**FEATURES:**

- Programmable alert levels (except voltage gauges)
- LCD/LED screen
- Satin chrome bezel
- 13 selectable colours
- Relay output and peak hold functions (except voltage gauges)
- Display illuminates when park lights are turned on

**APPLICATIONS:**

- Monitor key vehicle functions
- Avoid breakdowns and equipment failures
- Save space on busy dashboard
- Know potential issues before catastrophe strikes



## ROLL OVER SENSOR.



**ROS**  
by REDARC



## THE BENCHMARK IN HEAVY VEHICLE SAFETY.

The Roll Over Sensor triggers the Battery Master Isolation Switch (see page 102) in the event of a vehicle rollover, enabling trucks to meet the legal requirement of roll over sensing (AS2809:2008). The ROS signals the isolation switch to disconnect power to the trucks system, representing a significant improvement over existing roll over switches in the market. It is suitable for 12 or 24V systems.

### DISCONNECTS THE ELECTRICS.

The ROS automatically shuts down the engine and all electrics when an angle of more than 45° is reached and reduces frustrating false triggers from wiring faults through the system's dual fault protection

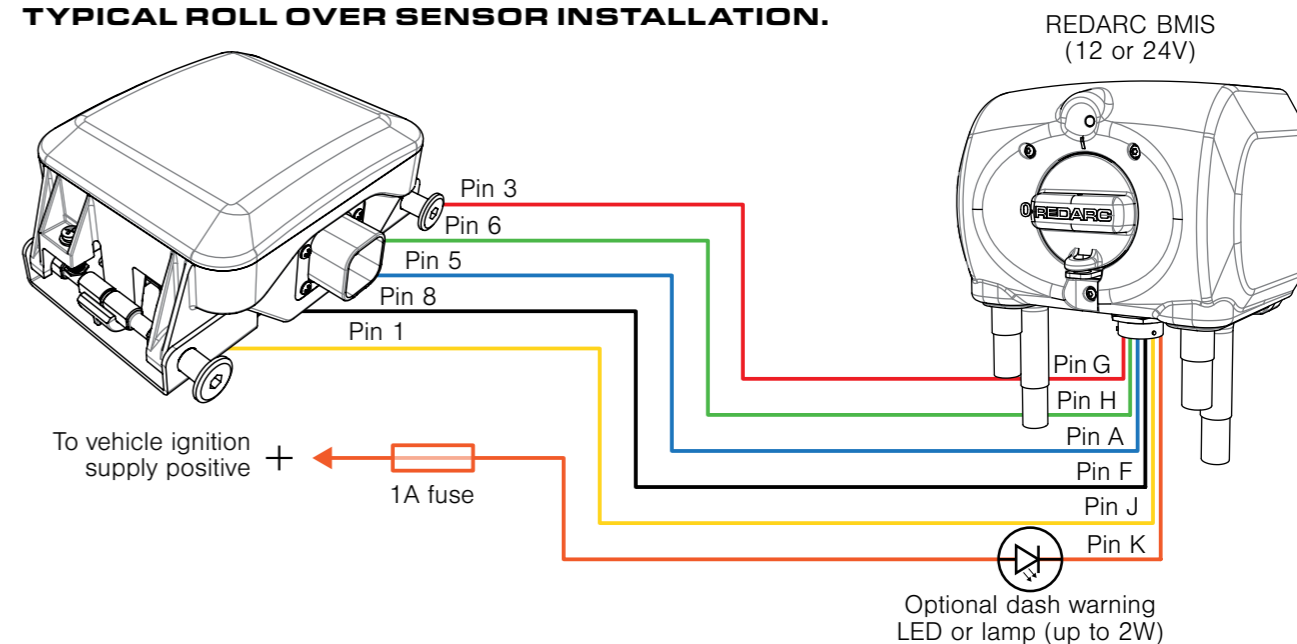
### MULTI-AXIS DUAL ACCELEROMETERS.

The unit features multi-axis dual accelerometers that provide multiple detections and will isolate in line with the three second window required by Australian standards.

### BUILT TOUGH FOR TOUGH ENVIRONMENTS.

The REDARC Roll Over Sensor is designed, manufactured and tested in Australia to withstand the harsh environments that are experienced day after day by the transport industry.

## TYPICAL ROLL OVER SENSOR INSTALLATION.



## WORKS WELL WITH...



### BATTERY MASTER ISOLATION SWITCHES.

SMIS4PPV2KIT & SMIS4PNV2KIT

The ROS can be used in unison with the Battery Master Isolation Switches to enable heavy-duty vehicles to meet AS2809 roll-over sensing requirements, automatically shut down the vehicle's engine and all electrics if a dangerous angle of more than 45 degrees is reached.

For more information, see page 102.



**ROS1224**

Input voltage	9 - 32V (12 or 24V systems)
Current draw (into VIN+)	16mA (typical)
Ambient temperature	-40° to 85°C
Ambient humidity	0% - 100%
Switching point	45 - 64°, 55° (typical)
Timing	>2 seconds (3 seconds maximum)
Output trigger	3x 40 millisecond ground pulses at 0.5 second intervals
Reverse polarity protection	Yes
Dash warning LED lamp	12V LED suitable
Environmental protection	IP66/IP67/IP69K
Dimensions	150 x 122 x 65mm
Weight	700g
Warranty	Two years

## FEATURES:

- Uses dual accelerometers for automotive safety applications, giving high accuracy, reliability and ability to detect fault conditions
- Immune to vibration, bump, shock, turning or electrical transients
- Built for high reliability using automotive grade parts, and redundant sensors and controllers
- Fault detection and indication LED on the unit and via an optional dash-mounted lamp
- Suitable for 12 and 24V vehicles

## APPLICATIONS:

- Reduce testing time with easy periodic test by pin-removal and tilt mechanism
- Built tough for truck electrical environments
- Enables trucks to meet the legal requirement of roll over sensing
- A significant improvement over existing roll over switches on the market





## AUDIO ALERT SYSTEM.



## GET THE MESSAGE.

The 16 Channel Audio Alert System provides vehicle operators clear, precise and customised verbal alerts when an input trigger has been detected. Customised verbal alerts could include 'low oil pressure', 'high engine temperature', 'over speed detected' or 'please apply seatbelt'.

### A CHOICE OF AUDIO OUTPUTS.

An in-built amplifier allows messages to be relayed (spoken) through an 8 ohm speaker. There is also an audio line-out that can be connected to an external amplifier or PA system.

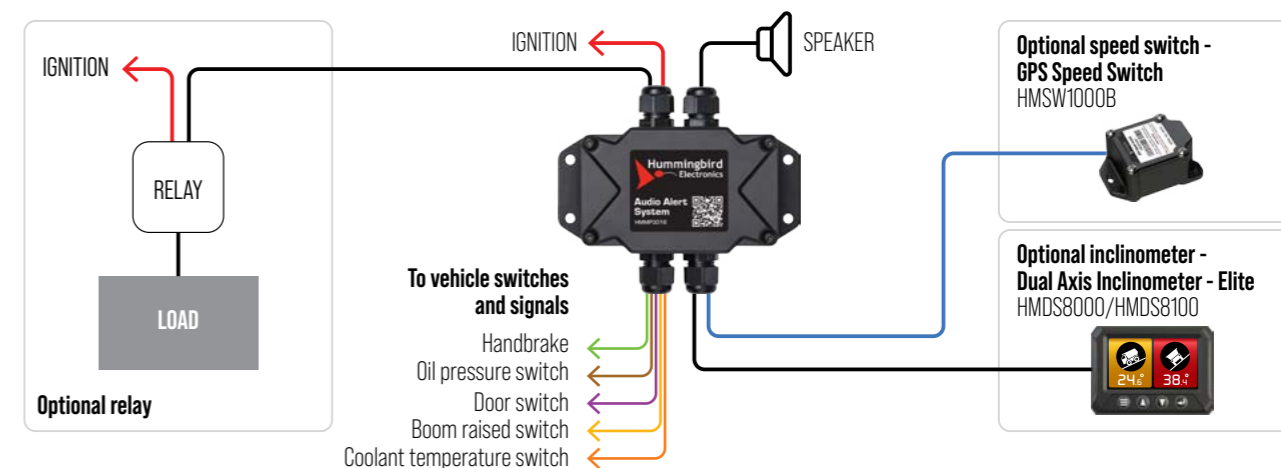
### SUITABLE FOR 12 OR 24V VEHICLES.

The 16 Channel Audio System features a wide input voltage of 10 to 30V, enabling it to be used in 12 and 24V vehicles, making it perfect for cars, trucks, buses and other heavy vehicles and machinery.

### CUSTOMISABLE CONFIGURATION.

The audio file-name provides customised configuration, including: CAN signals, positive or negative input triggers, how many times the message is repeated, message volume and a timed delay before triggering if required.

## TYPICAL HMMP3016 INSTALLATION SAMPLE INPUTS.



### FEATURES:

- SD card slot for simple loading of audio files (MP3, WAV, OGG, WMA)
- Built-in amplifier can directly drive an 8 ohm speaker plus line out for connection to an external amplifier or PA system
- Easy to configure programming
- Configurable volume and delay for each input channel
- Selectable long or short power-up delay
- Rugged sealed aluminium housing offering moisture and dust protection
- Four cable glands for entry of power, trigger inputs and speaker outputs



**HMMP3016**

Input voltage	10 - 30V
Supply current	Standby: 35mA @ 12V DV Playback: up to 2A depending on speaker and audio file A 5A fuse must be installed on positive supply
Inputs	12 individually-configurable, positive or negative digital J1939 CAN inputs 4 configurable negative digital inputs
Voltage on inputs	Minimum: 1V - maximum: 30V - must not exceed supply voltage
Cable glands	4 M16 x 1.5 glands included, to fit diameter 4-8mm speaker outputs 2 terminals for direct connection to a single 8 ohm speaker Delivers up to 10W output power
Line out	Three terminals for left, right and common line out
IP rating	IP65 equivalent when assembled correctly
Operating temperature	-10° to 70°C - 5% to 95% relative humidity
Dimensions	74 x 147 x 42mm excluding glands
Weight	311g
Warranty	Two years



## INCLINOMETERS.



## PREVENT ROLL OVERS AND KEEP YOUR OPERATORS SAFE.

Industrial, mining, civil, defence, transport and machinery hire industries continually strive to improve safety, not only for equipment operators, but also their machinery. The costs associated with near misses and reported events is huge in terms of time and money, as well as people's lives. Hummingbird's wide range of inclinometers provide highly visible pitch, roll and speed measurement display.

### A WIDE RANGE OF SAFETY DEVICES.

Hummingbird Electronics offer a range of stability monitoring devices, including inclinometers and tilt switches, focused on improving the safety of mobile machines and their operators.

### CONFIGURABLE TO MEET EVERY NEED.

Our digital and dual axis inclinometers and tilt sensors offers an unmatched WHS/OHS vehicle solution. They provide highly visible and configurable pitch and roll measurements and display them to operators.

### BUILT TOUGH FOR TOUGH ENVIRONMENTS.

Like all Hummingbird products, our inclinometers, tilt switches and precision sensors are designed and manufactured in Australia to withstand the harsh environments experienced by the mining industry.

## THE INCLINOMETER RANGE.

The extensive range of Hummingbird Inclinometers, tilt switches and sensors are designed and manufactured in Australia for to withstand the harsh environments of the mining industry. Regardless of which inclinometer you choose, you'll be assured you experienced an unmatched WHS or OHS vehicle solution.

### DUAL AXIS INCLINOMETER RANGE.

Page 138



**ACTIVE**  
HMDS2000



**ELITE**  
HMDS8000/HMDS8100



**COMPACT**  
HMDS0500

### INTEGRATED SENSOR RANGE.

Page 142



**COMPACT**  
HMDS0400



**COMPACT BALL BANK**  
HMBB0400

### TILT SENSORS.

Page 144



**1 DEGREE**  
HMTS2M0000B



**0.1 DEGREE**  
HMTS2M3000C



**0.1 DEGREE - TCM OUTPUT**  
HMTS2CFG232-TMC

### TILT SWITCHES.

Page 145



**USB CONFIGURABLE**  
HMTS2CFG0



**DUAL AXIS**  
HMTS2CFG10B

### APPLICATIONS:

- Reduce machine downtime
- Improve machine and operator safety
- Reduce injury risk and meet safety compliance
- Perfect for construction, industrial, mining and farming machinery, as well as caravans, campers and 4WDs

### WORKS WELL WITH...



### AUDIO ALERT SYSTEM.

HMMP3016

Provides vehicle operators with clear and precise verbal alerts when an input trigger has been detected, for example "Warning, dangerous vehicle angle".

It can provide a verbal announcement for a range of customised alerts relating to pitch and roll warnings.



### COMBINATION WARNING LED AND BUZZER.

HMAC001-12 (12V) - HMAC001-24 (24V)

Used as an alarm or indicator in automotive applications. When a DC voltage is applied, the LED and buzzer pulse for maximum impact.



## GPS TRIP METERS.



## KNOW THE DISTANCE.

GPS Trip Meters improve safety and efficiency in road management tasks by accurately displaying distance travelled and speed. They are commonly used to locate areas that require minor or major road repair. They are ideal for council fleets, civil contractors or road authorities that need to measure road distances to accurately position road signs or marker cones.

### PLUG AND PLAY FLEXIBILITY.

Hummingbird's GPS Trip Meters feature plug and play flexibility that allows them to be installed independently of the vehicle for a simple, calibration-free installation.

### BUILT FOR THE TOUGHEST CONDITIONS.

Hummingbird GPS Trip Meters are designed and constructed in Australia to withstand the diverse and extreme environmental conditions of Australia's mining, civil and construction sites.

### UNSURPASSED ACCURACY.

Three-dimensional distance measurements ensure accurate trip distance and speed measurements in places with variable topology, such as hilly areas.



### GPS TRIP METER - ACTIVE. HMGT3000

The Active GPS Trip Meter features GPS and GLONASS for greater accuracy.

It is easy to operate and can display two independent trips simultaneously. It features a full colour touch screen that can be used to count up or down on different trips simultaneously and is able to be paused, stopped or can reset distances.

Current and average speed are displayed, and an over-speed alert can be configured to activate an internal buzzer. This buzzer can be configured to beep when the trips are in countdown mode.

### FEATURES:

- Full colour touch-screen
- Ability to display two independent trips simultaneously.
- Up/down count, pause and reset directly from the touch-screen
- Current speed displayed
- Internal buzzer
- GPS & GLONASS
- USB and 12V accessory socket connections
- Password protected



### GPS TRIP METER - ELITE. HMGT8000B

The GPS Trip Meter – Elite has the same functionality as the Active model but includes the ability to display up to eight trips simultaneously.

It can log events and locations of interest with date, time and GPS location.

This logged activity can be saved to its internal memory and extracted to Google Earth for further analysis.

Additional features include a ball bank indicator and internal roughness meter.

### FEATURES:

- Includes a ball bank indicator and internal roughness meter
- Option to download all recorded information to a spreadsheet
- Full colour touch-screen with a full numeric keypad
- Up/down count, pause and reset from the touch-pad
- Ability to display up to eight independent trips simultaneously
- Password protected

### APPLICATIONS:

- Perfect to assist with log booking of fleet vehicles
- Ideal for council fleets, civil contractors or road authorities that need to measure road distances accurately
- Three-dimensional distance measurements make GPS Trip Meters ideal for places with variable topology (such as hilly areas)

### KEEPING OPERATORS OFF THE ROAD.

Traditionally small-scale road measurements involve operators calculating distance through a surveyor's or 'click' wheel. Using a GPS Trip Meter operators can accurately record the distance for quoting contractors without having to leave the vehicle, ultimately minimising the risks associated with working on busy roads.

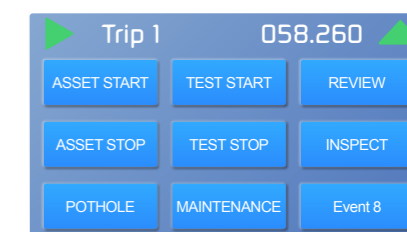
The display of multiple readings benefits users by providing an evaluation of a stretch of road and the distance that may require attention.

GPS Trip Meters can also be used for logbook purposes where the vehicle is not used for work purposes on a regular basis.



### BALLBANK FUNCTION.

The digital ballbank provides a horizontal inclinometer reading to  $\pm 20^\circ$  from level.



### LOGGING DATA.

The unit logs position, speed and trip distance data automatically.



## GPS TRAILER ODOMETER.



## ENSURE YOUR CARAVAN IS GOING THE DISTANCE.

This Hummingbird GPS Trailer Odometer accurately measures the distance travelled by your caravan or trailer. Featuring customisable service intervals, this trip meter and odometer not only displays the distance travelled by the trailer on its colour screen, but it also allows the user to set a reminder at specified dates and/or distance travelled, to then notify the user when it is time for a trailer service.

### EASY INSTALLATION.

Installation is a breeze with this digital odometer and trip meter, use an accessory socket or hard-wire it to the trailer and place the GPS bulkhead antenna with a line of sight to the sky.

### STAY UP TO DATE WITH AUDIBLE WARNINGS.

An internal buzzer can be set to provide an audible warning of when a defined distance has been reached. There is also the ability to display a trip A or B, to record individual trips travelled.

### NEVER MISS ANOTHER SERVICE.

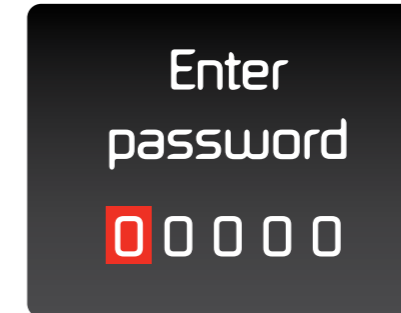
Customisable intervals allow the user or service agent to set a specified date and/or distance travelled with a service reminder, to ensure routine trailer services are not missed.

## EASY-TO-NAVIGATE MENU SYSTEM.



### MULTIPLE MODES.

Resettable Trips A and B.



### PASSWORD PROTECTED.

Preset maintenance schedule ensures services aren't missed.



### SERVICE REMINDERS.

Displays the next service distance interval and date.

## POWERFUL PERFORMANCE.

The GPS Trailer Odometer comes supplied with an easy-to-read colour screen which notifies the user when a service interval has been reached. It also comes with a standard GPS Bulk Head Antenna and Mounting Bolt.

Incorporating customisable service intervals allows the user or service agent to set a specified date for a reminder and/or a set distance travelled with adjustments in configurable increments. An internal buzzer can also be optioned providing an audible warning of when a defined distance has been reached. There is also the added ability of displaying a Trip A or B, enabling the user to record individual trips travelled.



HMOD1000

Input voltage	9 - 32V
USB power compliant	No
Power consumption	Maximum 1.2W (100mA @ 12V; 50mA @ 24V)
Distance update rate	10Hz
Minimum speed	3km/h
Satellite acquisition time	Less than 38 seconds 50% of the time Less than 42 seconds 90% of the time
Operating temperature	-40° to 85°C
Mounting system	Bolt and washer
Antenna cable length	5 metres
Dimensions (display unit)	70 x 50 x 18mm
Bulkhead mount GPS antenna	46 x 17mm
Weight	100g
Warranty	Two years

### FEATURES:

- Colour LCD Display
- Programmable service intervals
- Resettable Trips A and B
- Password protected
- Accurate GPS and GLONASS distance measurement
- Australian designed and manufactured
- Suitable for 12 and 24V vehicles

### APPLICATIONS:

- Know when its time for a trailer service with accurate measurements of the distance travelled by a caravan or trailer.
- Receive reminders of trailer services by setting alerts for specified dates and/or distances travelled
- Track individual trips with Trip A and Trip B

