

# Take charge and pull the plug



The REDARC range of In-vehicle Dual Battery Chargers are ideal for anyone wishing to go off-grid, ensuring they have the battery power required to use 12 or 24 volt equipment when travelling.

Time to pull the plug on having to charge your auxiliary battery before you hit the road. REDARC's in-vehicle dual battery charger range charge your auxiliary battery while you're on the move via the alternator or with solar panels.

With a built-in Maximum Power Point Tracking regulator you'll get the maximum available amount of power from your solar panels at any given time.

Compact in size, BCDC In-vehicle Dual Battery Chargers can be mounted in a variety of places for flexible installation options, from the engine bay to the inside or outside of a van or trailer.

With features like fully-sealed electronics and fan-free cooling, water, dust and vibration are no match for these in-vehicle battery chargers. The BCDC range has been proven and tested to work under the harshest conditions.

### Look at all the benefits...

- Multi-stage charging helps maximize battery life
- Proven to charge an auxiliary battery to 100% state of charge
- Longer battery life
- Increase run time of loads like fridges and lights
- Allows for flexible installation in 12 or 24 volt vehicles
- Overcomes voltage drop caused by long cable runs



# In-vehicle Dual Battery Chargers

Many people across this country of ours rely on auxiliary batteries for power when they're away from home. RV owners aren't always able to 'hook up' to convenient AC power and overlanding enthusiasts like to take along some home comforts when boondocking or dry camping.

Maintaining the charge of an auxiliary battery while you're on the move, REDARC's range of battery chargers uses power from your vehicle's start battery and solar panels when driving or just from solar panels when you're stationary.

The REDARC range of BCDC In-vehicle Dual Battery Chargers ensures optimum performance of electrical equipment such as fridges, lights, CPAP machines and even hydraulic pumps when they're powered from a dual battery setup.

By employing a unique, multi-stage charging algorithm, REDARC In-Vehicle Battery Chargers feature technology designed to fully charge auxiliary batteries to a proven 100%.

These unique DC to DC chargers ensure a battery is able to achieve and maintain an optimal charge regardless of its type or size.

## 12 volt In-vehicle Dual Battery Chargers

The award-winning 12 volt In-vehicle Dual Input Battery Chargers, available in 25 and 40 amp models, have separate vehicle DC and solar inputs, making installation of the unit easy.

They will charge from both solar and the vehicle's start battery simultaneously and are compatible with fixed, temperature compensating and variable voltage (smart) alternators and work with 12 and 24 volt vehicle electrical systems.

The range also provides specific charging profiles for all common battery types including AGM, gel, standard lead acid, calcium and lithium iron phosphate (LiFePO<sub>4</sub>) batteries.

## 24 volt In-vehicle Battery Charger

The BCDC2420 is ideally suited for commercial applications and charges 24 volt battery banks that are used for powering electric hydraulic pumps, tailgate lifters, spreader decks, ramps and sleeper cab air conditioning systems.

It features a fully integrated MPPT solar regulator and charges AGM, gel, calcium content, VRLA and standard lead acid batteries.



## Peace of mind when you need it most

The REDARC BCDC range features a wide 9 to 32 volt input range, allowing an auxiliary battery to be charged from either a 12 or 24 volt vehicle electrical system.

All models incorporate dual battery isolation as well as fault detection that includes protection against voltage spikes, overheating and reverse polarity connection, to ensure complete protection of your batteries.

## Unique charging profile

Most vehicle alternators are not designed to fully charge an auxiliary battery. An insufficient charge rate will - at best - shorten the life and performance of the auxiliary battery but may result in the battery being flat when least expected.

The advanced electronics in REDARC's BCDC In-vehicle Dual Battery Chargers constantly monitor the vehicle battery input charge to ensure that your auxiliary battery always receives the ideal voltage and current for maximum battery life and performance.

## Accessories range

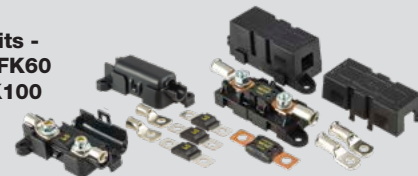
REDARC has a comprehensive range of accessories.

### Relay kit - RK1260

(not required for BCDC1225D or BCDC1240D)



### Fuse kits - FK40, FK60 and FK100



## Collect more power from the sun

The BCDC 1225D, 1240D and 2420 feature Maximum Power Point Tracking (MPPT) solar regulator allowing the use of solar power to boost a battery's charge, delivering power from solar panels to the auxiliary battery, even during low light conditions.



For help choosing the best dual battery setup for your needs use the free

## REDARC Dual Battery System Selector

Visit [redarcelectronics.com/dualbatteryselector](http://redarcelectronics.com/dualbatteryselector)

Visit [redarcelectronics.com](http://redarcelectronics.com) for more information

For product support contact your regional distributor - a complete list can be found at [redarcelectronics.com/distributors](http://redarcelectronics.com/distributors) - or send an email to [power@redarcelectronics.com](mailto:power@redarcelectronics.com)

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\* Requires RK1260 for installation. Details and specifications are subject to change without notice.  
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