REDARC In-vehicle Dual Battery Chargers

Built tough for Australian conditions REDARC

REDARC's range of In-vehicle Dual Battery Chargers are designed, built and tested in Australia for our unique conditions to make sure they won't let you down.

With features like fully sealed construction and fan-free cooling - water, dust and vibration are no match for the In-vehicle Dual Battery Charger... you can be assured they can handle the roughest tracks in outback Australia and the deepest water crossings at Cape York.

REDARC's knowledge of Australian conditions is engineered into every unit. All models operate up to a market-leading 80°C meaning they are going to work in even the most extreme heat of the Simpson Desert.

A higher operating temperature and compact in size also allows for flexible installation options, from the engine bay to inside a van or camper trailer.

Look at all the benefits...

 Multi-stage charging saves you money by maximising battery life



MADE IN AUSTRALIA



The BCDC In-vehicle Dual Battery Charger range

The REDARC BCDC range features a wide 9-32 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 recognition that includes protection against voltage spikes, overheating and reverse polarity connection, to ensure complete protection of all your batteries.

12 volt auxiliary battery chargers

There are four output current options to choose from - 6, 20, 25 or 40 amps - to charge lead acid auxiliary batteries while driving. The 25 and 40 amp models also feature a fully integrated MPPT solar regulator, extracting the maximum amount of power from solar panels to charge an auxiliary battery, even during low light conditions.

A relay kit is required to allow you to automatically switch between charging your auxiliary battery from the vehicle or solar panel when using either a BCDC1225 or BCDC1240.



12 volt dual input auxiliary battery chargers

The next-generation 25 and 40 amp models with fully integrated MPPT solar regulators are able to charge common lead acid auxiliary batteries as well as lithium iron phosphate batteries.

The BCDC1225D and BCDC1240D Dual Input Battery Chargers, charge from solar and DC inputs simultaneously (no external relay is required as with standard BCDCs). With built in 'Green Power Priority' they will select solar first, meaning less load on the alternator.

They also suit standard and variable voltage/smart alternators.



24 volt auxiliary battery charger

To meet the demands of 24 volt auxiliary battery charging, a 24 volt, 20 amp charger is available. It also features a fully integrated MPPT solar regulator.

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



With more and more electrical devices being used when travelling around Australia, along with more complex vehicle electrical systems, having the right battery charging solution has never been more important.

The REDARC range of BCDC In-vehicle Dual Battery Chargers ensure 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, BCDC In-vehicle Dual Battery Chargers have been designed to charge any commonly-used automotive auxiliary battery to 100% while you're on the move and from solar (if available).

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.

Whether you need an auxiliary battery for leisure or business, you need an auxiliary battery charger you can really rely on. The REDARC BCDC in-vehicle battery charger will ensure your auxiliary battery will achieve and maintain an optimal charge regardless of its type or size.

The charging algorithm has also been independently verified and tested to ensure battery life is maximised.

Charging algorithm

The BCDC In-vehicle Battery Charger range features a three stage charging algorithm.

When the vehicle has started charging the main battery and it reaches the required voltage level the BCDC charger will commence charging the auxiliary battery in boost, The boost stage maintains a constant current until the battery reaches its predetermined 'absorption' voltage.

The BCDC charger will then remain in the absorption stage holding its set voltage until the battery is 100% charged.

The BCDC charger then switches to the 'float' stage where it retains 100% charge until a load on the auxiliary battery causes the battery voltage to drop below a predetermined voltage where it then re-enters the boost stage.

The advanced electronics in BCDC In-vehicle 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. Additionally a highly advanced battery isolator constantly monitors the vehicle battery input charge level, protecting your start battery from excessive discharge.

If it's worth having an auxiliary battery, it's worth protecting it with a REDARC In-vehicle Battery Charger.

ECU-controlled variable voltage alternators

A number of late model vehicles on the market have ECU-controlled variable voltage alternators to achieve better fuel economy and increased performance.

These systems vary the voltage from the alternator based on driving conditions. When the alternator voltage is low, the system voltage can drop below 12.7 volts turning the standard BCDC or isolator off.

In these instances we recommend using our BCDC-IGN or BCDC-LV.

The next-generation BCDC1225D and BCDC1240D can be used in 12 or 24 volt vehicle systems with standard or variable voltage/smart alternators, ensuring they will deliver the best charge to your auxiliary battery.



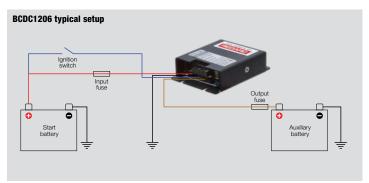


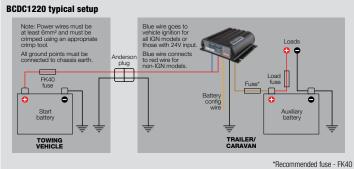
If visual monitoring of a 12 volt dual battery setup is required, REDARC have a range of BCDC In-vehicle Dual Battery Chargers, each packaged with a G52-VVA dual voltage gauge.

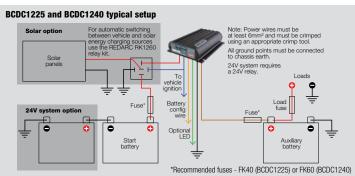
Value Pack	Contains		
BCDC1220-GK	BCDC1220		
DCDC1220-GK	and G52-VVA		
BCDC1220I-GK	BCDC1220-IGN		
D0D012201-0K	and G52-VVA		
BCDC1225-GK	BCDC1225		
50001223-UK	and G52-VVA		
BCDC1225L-GK	BCDC1225-LV		
JODG 122JL-GR	and G52-VVA		
BCDC1240-GK	BCDC1240		
DODG1240-GR	and G52-VVA		
BCDC1240L-GK	BCDC 1240-LV		
PUDUTZ4UL-UK	and G52-VVA		

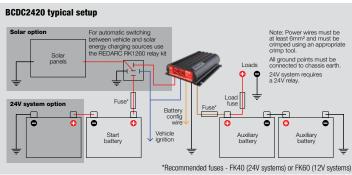
The extensive range of BCDC In-vehicle Dual Battery Chargers are designed and manufactured in Australia for Australian conditions. Regardless of which charger you choose, you'll be assured of the high quality and reliability that comes with every REDARC product.

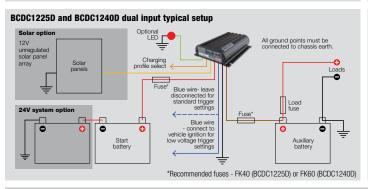


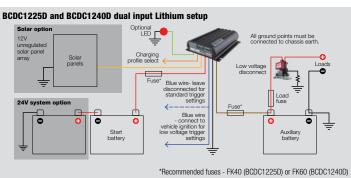












	BCDC1206	BCDC1220 BCDC1220-IGN	BCDC1225 BCDC1225-LV	BCDC1240 BCDC1240-LV	BCDC1225D	BCDC1240D	BCDC2420
Input voltage range [†]				9 - 32V			
Vehicle voltage range (LV models)†	1	V/A	9 -	16V		N/A	
Solar voltage range [†]	N/A		9 -	28V	9 -	32V	9 - 28V
Solar switch on voltage (unregulated)†	1	V/A	17	.5V	9.	0V	17.5V
Maximum charging voltage [†]	14.5V		14.6V/15.0V/15.4V		14.6V/15.0V/15.3V/14.6V		29.0V/29.8V/30.6V
Output current	6A	20A	25A	40A	25A	40A	20A
No load current	ad current <100mA						
Standby current	<1mA	<5mA	<8mA				
Recommended input fuse [‡]	10A	40A	40A	60A	40A	60A	60A
Recommended output fuse [‡]	7.5A	40A	40A	60A	40A	60A	40A
Output power	72W	300W	375W	600W	375W	600W	600W
MPPT solar regulator		No				Yes	
Ambient temperature	-20°C to +70°C		-20°C to +80°C		-15°C to +80°C		-20°C to +80°C
Dimensions	80 x 60 x 20mm	100 x 120 x 37mm	150 x 120 x 37mm		165 x 120 x 37mm		150 x 120 x 37mm
Weight	200g	450g	680g		850g		680g

[†] Voltages specified are ±100mV. ‡Fuses not supplied.

Visit **redarc.com.au** for more information. REDARC In-vehicle Dual Battery Chargers are available at your nearest auto electrician or 4WD specialty store.

Want to know more?

Scan this QR code with your smartphone to go to the Redarc website

POWER



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