THE POWER OF
REDARC

BCDC IN-VEHICLE DUAL BATTERY CHARGERS.

CHARGED AND READY TO GO.

REDARCELECTRONICS.EU/BCDC

REDARC's range of In-vehicle Dual Battery Chargers are designed, built and tested in Australia for the harshest 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 conditions.

REDARC's knowledge of Australian conditions is engineered into every unit. All models operate in the market-leading temperature range of -15˚C to +80˚C.

A higher operating temperature and compact in size also allows for flexible installation options, from the engine bay to inside the vehicle cabin.

The REDARC In-vehicle Dual Battery Charger range features a wide 9 to 32V input range, allowing an auxiliary battery to be charged from a 12 or 24V vehicle electrical system.

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

REDARC BCDC In-vehicle Battery Chargers let you charge a 12 or 24V secondary battery so you can operate a wide range of equipment:

- Lights
- Phones
- Tablets and laptops
- Fridges and freezers
- Water pumps
- Drones
- An inverter to run:
  - Camera chargers
  - Laptops
  - Speakers
  - GPS
  - Bi-pap machines
  - Coffee machines
  - Power tools

FEATURES.

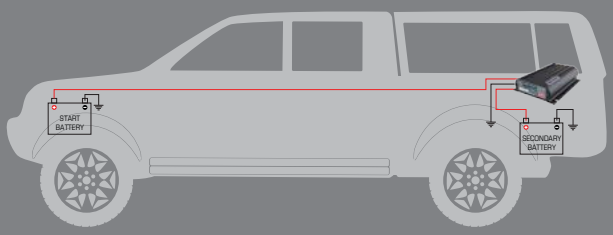
- Designed and built for extreme conditions
- Charges all major automotive battery types
- In-built MPPT solar regulator*
- Multi-stage, battery-type specific charging algorithms
- Built-in battery isolator
- Suitable for 12 and 24V automotive electrical systems
- Simple LED status indication
- Suitable for harsh and marine environments
- Compact and lightweight
- 98% efficient with no forced cooling (i.e. no fan)

BENEFITS.

- Maximises battery life
- Increase run time of loads
- Flexible installation in 12 or 24V vehicles
- Overcomes voltage drop caused by long cable runs
- Charges your battery while you drive

* Not included in 12V 20A models

The REDARC BCDC overcomes voltage drop caused by long cable runs - your secondary battery always receives the correct voltage to keep it fully charged.



THE BCDC RANGE.

12 VOLT CHARGERS.

Charge AGM, gel, calcium content, VRLA and standard lead acid batteries while you're driving.

The IGN-model is suitable for vehicles with an ECU-controlled, variable voltage alternator.

BCDC1220
BCDC1220-IGN

12 VOLT LOW COST CHARGERS.

Power up for less with the BCDC Core. Perfect for in-cabin, canopy or battery box installation where dust and waterproofing aren't required. Features lithium compatibility, an MPPT solar regulator and simultaneous DC and solar charging for maximum efficiency.

BCDCN1225

BCDCN1240

12 VOLT DUAL INPUT CHARGERS.

These next-generation 25, 40 and 50A models with fully integrated MPPT solar regulators are able to charge common lead acid auxiliary batteries as well as lithium iron phosphate batteries ($LiFePO_4$).

They charge from solar and DC inputs simultaneously, 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.

BCDC1225D

BCDC1240D

BCDC1250D

24 VOLT CHARGERS.

To meet the demands of 24V auxiliary battery charging, a range of 24V chargers are available. They all feature a fully integrated MPPT solar regulator. The BCDC2410 (10A) and BCDC2420 (20A) charge AGM, gel, calcium content, VRLA and standard lead acid batteries. The LFP2420 and LFP2420-LV are designed to charge Lithium Iron Phosphate ($LiFePO_4$) batteries. The LV models features a lower voltage setting so they can operate with variable voltage alternators.

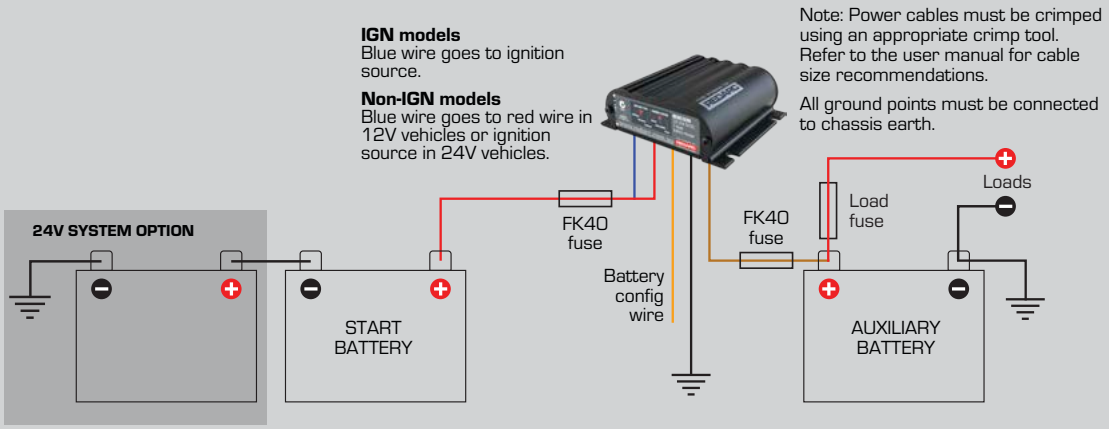
BCDC2410
BCDC2420

BCDC2420-LV

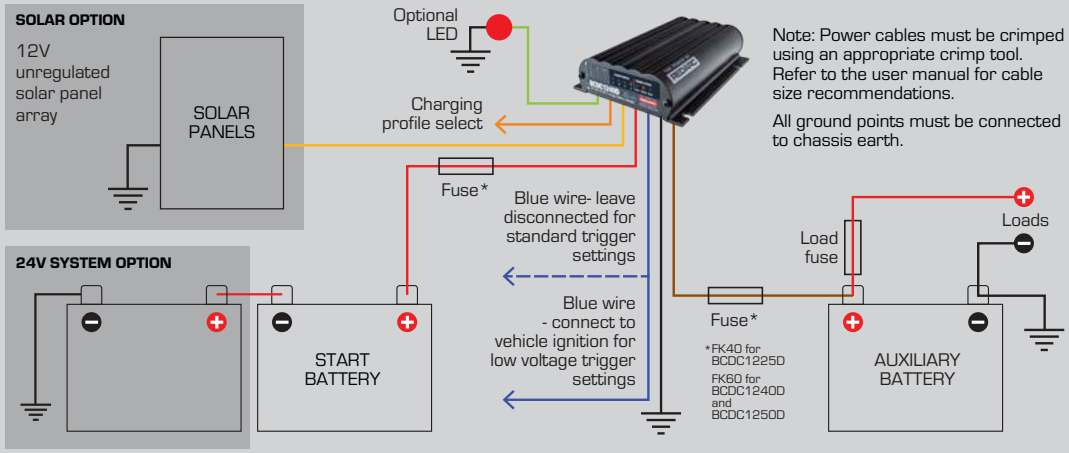
LFP2420

LFP2420-LV

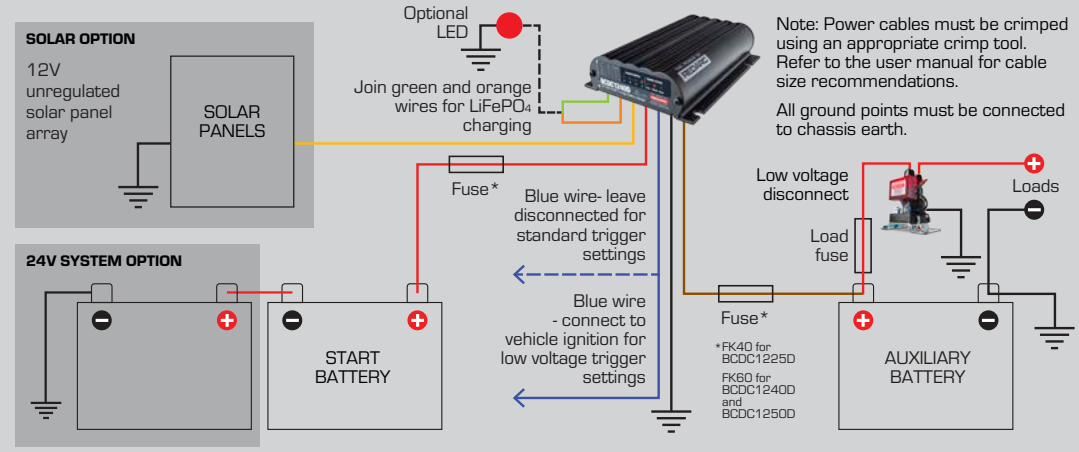
BCDC1220 AND BCDC1220-IGN - TYPICAL SETUP. 12 VOLT



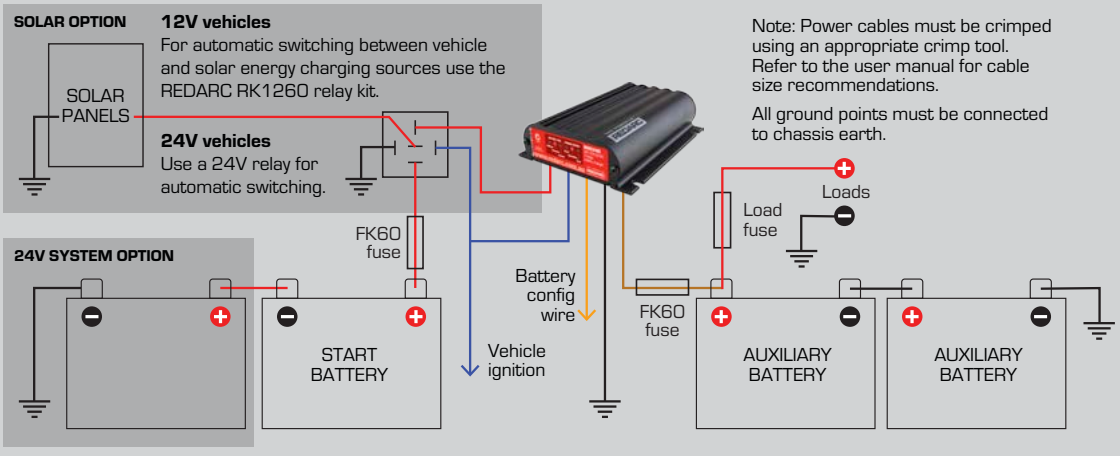
BCDC1225D, BCDC1240D AND BCDC1250D - TYPICAL LEAD ACID SETUP. 12 VOLT



BCDC1225D, BCDC1240D AND BCDC1250D - TYPICAL LiFePO4 SETUP. 12 VOLT



BCDC2410 AND BCDC2420 - TYPICAL SETUP. 24 VOLT



	 BCDC1220 BCDC1220-IGN	 CORE25 BCDCN1225	 BCDC1225D	 CORE40 BCDCN1240	 BCDC1240D	 BCDC1250D	 BCDC2410	 BCDC2420 BCDC2420-LV	 LFP2420 LFP2420-LV
Input voltage range	9V-32V	9V-32V	9V-32V	9V-32V	9V-32V	9V-32V	9V-32V	9V-32V	9V-32V
Vehicle voltage range (IGN/LV models)	9V-32V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar voltage range	N/A	9V-32V	9V-32V	9V-32V	9V-32V	9V-32V	9V-28V	9V-28V	9V-32V
Solar switch on voltage*	N/A	17.5V	9.0V	17.5V	9.0V	9.0V	17.5V	17.5V	17.5V
Maximum charging voltage	14.6V/ 15.0V/ 15.4V	29.0V/ 29.8V/ 30.6V	14.6V/ 15.0V/ 15.4V	29.0V/ 29.8V/ 30.6V	14.6V/ 15.0V/ 15.4V	14.6V/ 15.0V/ 15.4V	29.2V/ 30.0V/ 30.6V	29.0V/ 29.8V/ 30.6V	29.0V/ 29.8V/ 30.6V
Output current	20A	20A	25A	20A	40A	50A	10A	20A	20A
No load current	<100mA	<100mA	<100mA	<100mA	<100mA	<100mA	<100mA	<100mA	<100mA
Standby current	<5mA	<8mA	<8mA	<8mA	<8mA	<8mA	<8mA	<8mA	<8mA
Recommended input fuse**	40A	60A	40A	60A	60A	60A	30A	60A	60A
Recommended output fuse**	40A	30A	40A	30A	60A	60A	15A	40A	30A
Output power	300W	600W	375W	600W	600W	750W	600W	600W	600W
MPPT solar regulator	No	Yes	Yes	Yes	Yes	Yes	Yes***	Yes***	Yes
Ambient temperature	-20°C to 80°C	-20°C to 80°C	-10°C to 80°C	-20°C to 80°C	-10°C to 80°C	-10°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C
Dimensions	100 x 120 x 37mm	150 x 120 x 37mm	165 x 120 x 37mm	150 x 120 x 37mm	165 x 120 x 37mm	165 x 120 x 37mm	150 x 120 x 37mm	150 x 120 x 37mm	150 x 120 x 37mm
Weight	450g	680g	1kg	680g	1kg	1kg	680g	680g	680g
Compliance	CE	CE, E-Mark	CE, E-Mark	CE, E-Mark	CE, E-Mark	CE, E-Mark	CE, E-Mark	CE, E-Mark	CE, E-Mark

*Requires unregulated solar panel. ** Fuses not supplied. *** Requires RK1260 Relay Kit. Voltages specified are ±100mV.

WORKS BEST WITH...

REDARC has a comprehensive range of accessories including fuse kits, relays, cables, connectors and mounting hardware to complete your installation.

RELAY KIT - RK1260

FUSE KITS - FK40 AND FK60

SMART ALTERNATOR COMPATIBLE MODELS.

Vehicles with a smart alternator will require the BCDC1220-IGN, BCDC1225D, BCDC1240D, BCDC1250D or BCDC1212T when charging a 12V auxiliary battery or a BCDC2420-LV or LFP2420-LV when charging a 24V auxiliary battery bank.

These alternators vary the voltage to the start battery based on driving conditions.

The BCDC-IGN operates purely on an ignition input, switching the unit on and off with the vehicle ignition.

The BCDC1225D, BCDC1240D, BCDC1250D and BCDC1212T models feature lower voltage settings so that they can continue operating with a low input voltage from the alternator.

YOU WILL NO LONGER BE TROUBLED BY:

- Smart alternators
- Voltage drop from long cable runs
- Inability to fully charge a secondary battery of different chemistry to the start battery
- Over-charging your secondary batteries leading to damage and failures
- Limited charging levels resulting in reduced battery output.

profile

Single input models comply with E-mark as per UNECE Regulation 10.05 with approval number E11 10R-059620 (except for BCDC1220 and BCDC1220-IGN). Dual input models comply with E-mark as per UNECE Regulation 10.05 with approval number E11 10R-059840.

THE POWER OF REDARC

REDARC Electronics
power@redarcelectronics.eu
23 Brodie Road (North)
Lonsdale, South Australia
Australia 5160

European warehouse
ul. Mazowiecka 46-48
87-100, Torun, Poland
Phone +48 510 380 085

Tech Support Helpline
+44 (0)20 3930 8109
London/UK local number
7.30pm – 9:30am

Want to know more? Scan this QR code with your smart phone to go to the REDARC website

REDARCELECTRONICS.EU