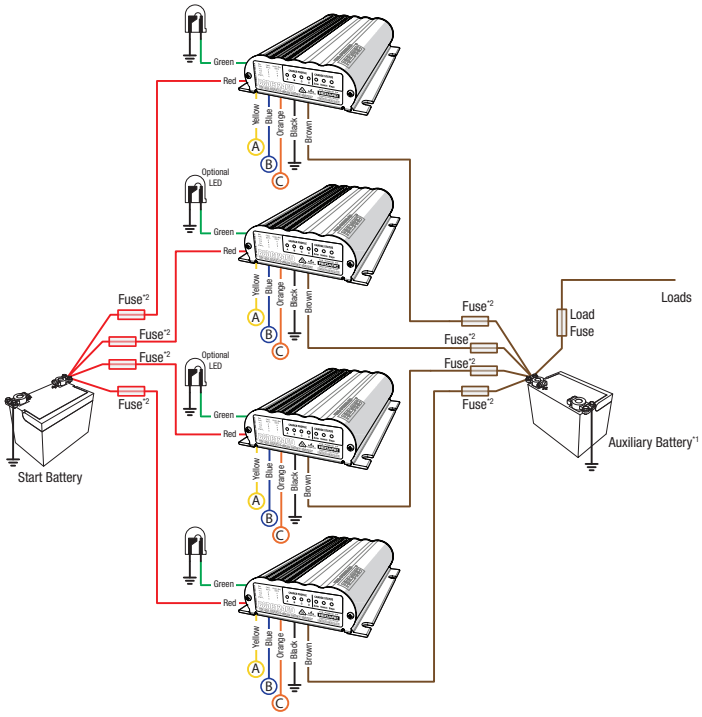
THE POWER OF REDARC®

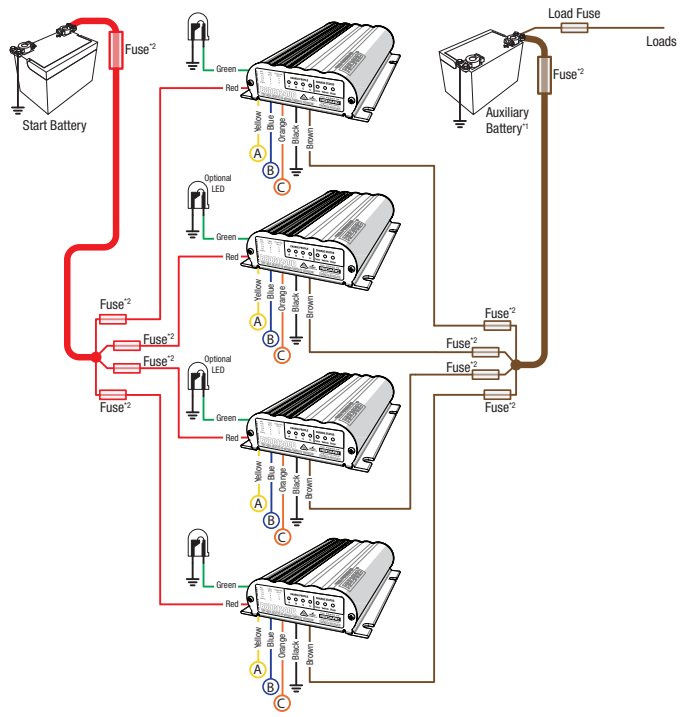
Connecting BCDC-Duals in Parallel

For batteries requiring a higher charge rate than our 25A or 40A chargers, the good news is that up to 4 BCDC-Dual chargers can be used in parallel!

Both wiring diagrams below are suitable depending on the installation requirements. Appropriate fuses should be used (fuse sizing depends on the charger size).

BCDC-Dual chargers feature a fault detection mode which ceases the charging output if the battery is removed; it is important to note that the this does not function when BCDC-Dual chargers are used in parallel. The result is that BCDC-Dual chargers in parallel may continue to run a load indefinitely or until the BCDC turns off due to the inputs falling below the turn off thresholds. Before commencing work on loads connected to the auxiliary battery, ensure that the BCDCs have ceased charging so that the load is not powered by the BCDC even with the battery is disconnected.





(A) Solar input Positive
(B) To vehicle ignition for smart alternators
(C) Charging Profile Select

NOTICE

- Power wires and fuses must be appropriately sized to suit the current rating of the charger(s) and cable length.
- The chargers should be installed in areas which receive airflow. Refer to the user manual for further information.
- The Solar input Positives (A) should **not** be connected in parallel.
- All chargers should be set to the same charging profile.

*1. Refer to the battery manufacturer's data sheet to ensure the battery can accept the combined maximum charge currents from all chargers whilst at operating temperature (e.g. Engine Bay).

*2. - BCDC1225D: 40 Amp fuses (as found in REDARC FK40 Fuse Kit)
- BCDC1240D: 60 Amp fuses (as found in REDARC FK60 Fuse Kit)

TECH TIP