

3-STAGE BATTERY CHARGER BCDC-1206

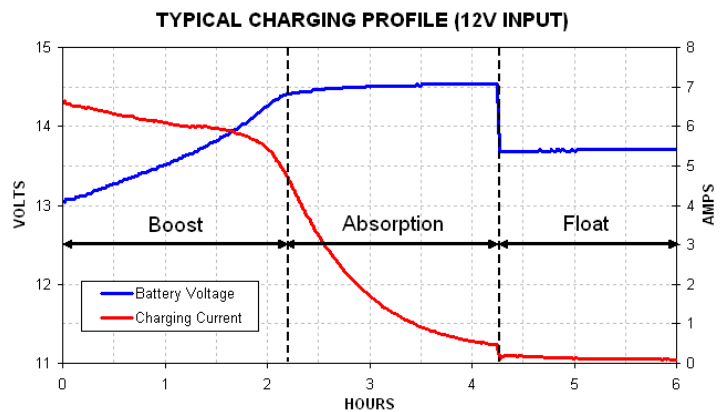
Function

The BCDC-1206 is a three stage DC-DC battery charger that operates with an input of between 9 and 32V. The input voltage of the BCDC-1206 can be above, below or equal to the output voltage making it ideal for charging an auxiliary 12V battery where the distance from the main battery may cause a significant voltage drop. The wide operating voltage range provides a simple solution to charging trailer mounted batteries. The BCDC-1206 can deliver sufficient current to charge a battery that has a typical DC compressor fridge connected.

When the BCDC-1206 is turned on it will start in Boost mode, Boost mode maintains a constant current until the battery voltage reaches 14.5V. The charger will then convert to Absorption mode, maintaining the voltage at this level for a predetermined period of time; after which it will enter Float mode. Float mode maintains 13.7V on the battery being charged until a load on the battery causes the battery voltage to drop below 12.2V when it then re-enters Boost mode.

Features

- Compact small size
- Over current and short circuit protection
- High operating temperature range up to 70°C
- Over temperature protection
- Input under voltage shutdown
 - Turn on above 9V
 - Turn off instantly below 8V
 - Turn off after 20 seconds below 9V
- Input over voltage shutdown
 - Turn on below 32V
 - Turn off instantly above 32.4V
 - Turn off after 20 seconds above 32V
- Led indication of output mode
 - LED on in float mode
 - LED flashing (4 flashes per second) in absorption mode
 - LED flashing (20 flashes per second) in boost mode



Specification

DC input voltage range:	9 ~ 32V for continuous operation
Absorption voltage:	14.5V
Float voltage:	13.7V
Boost commencement voltage:	12.2V
No load current (Ignition switched on):	< 100mA
Standby current (Ignition switched off):	< 150µA
Input protection:	Reverse polarity by external fuse (Fuses required 10A on input, not supplied)
Output protection:	Output over-current and short circuit protection. Reverse polarity by external fuse (Fuses required 7.5A on output, not supplied)
Maximum continuous output current:	3.5 ~ 6.5 A (input voltage dependent)
Connector:	Input Positive Common Negative input Output Positive Ignition Positive
Standards:	AS/NZS CISPR11:2004 (CISPR 11 ED. 4.1)

Installation

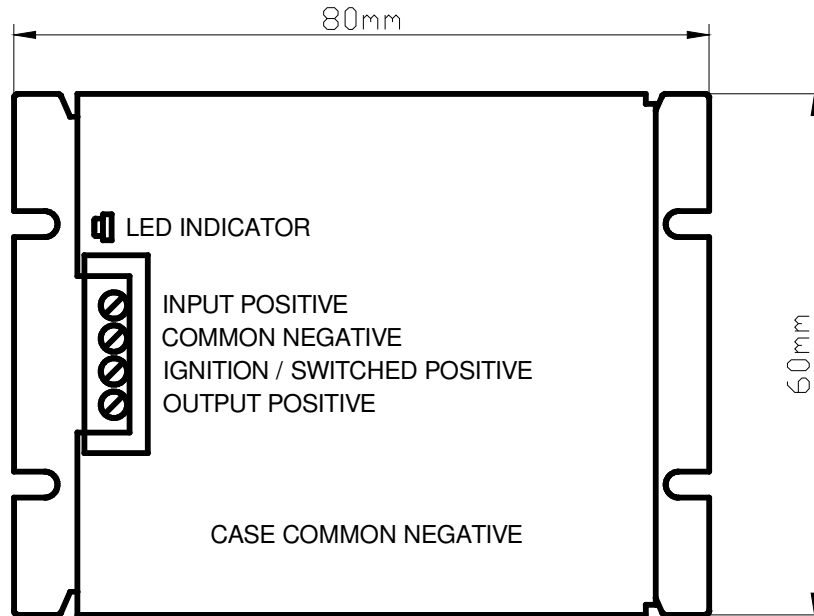
The battery charger should be mounted as close as practicable to the battery being charged.

To minimise voltage drop, ensure all additional wiring, especially from supply, is of adequate thickness.

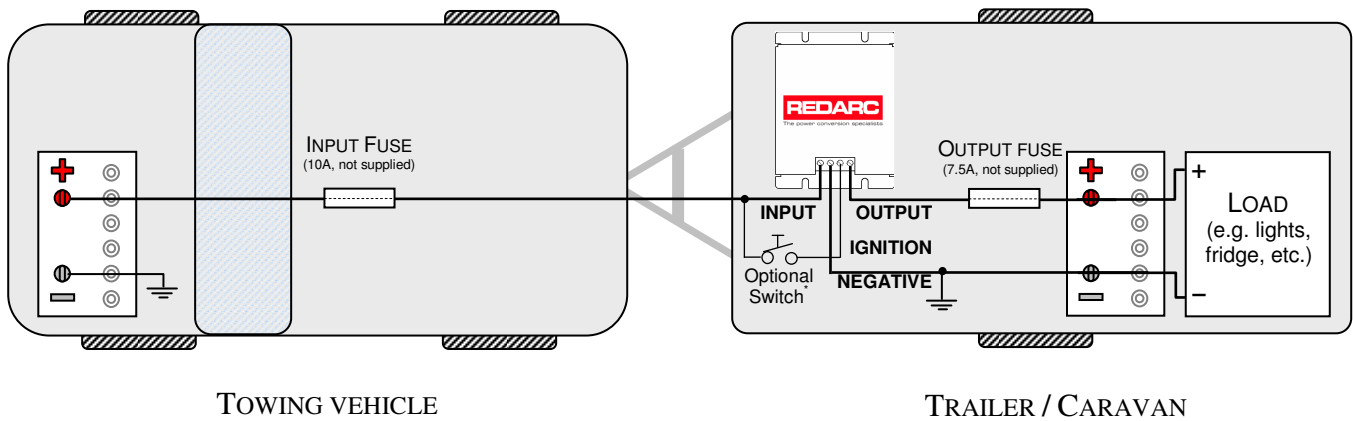
Appropriate sized fuses must be used to protect the unit from reverse polarity connections; without said fuses, the unit will be damaged in the event of a reverse polarity connection.

The ignition connection is supplied to allow the unit to be switched by a low current positive source of between 9 and 32V.

DIMENSIONS & CONNECTIONS



TYPICAL APPLICATION



*If the switch input is not required, then it may be connected directly to the input line.

For further information, please contact **REDARC**

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