

REG12-1 12V DC Regulator & Filter

The Drivedata *REG12-1* is a small, in-line power conditioner which protects your onboard electronics from voltage surges, short circuits and reverse polarity.

Installation:

Connect the DC supply to the unit's input lead - fitted with a 2.1mm DC socket. Connect the equipment you wish to protect (maximum draw 1.5A @ 12V) to the unit's output lead fitted with a 2.1mm DC plug.



You can cut off the plug/socket and wire the unit in directly. Ensure the positive connections are made to the wire with a white trace and negative connections to the wire with no trace. We suggest fitting a 2A fuse in the supply line as additional protection but this is not essential as the unit will protect against short circuits on the output.

Features:

- Brown-out protection: The *REG12-1* will turn off when supply voltage falls below 10.4V. This saves the battery from going completely flat and stops random power cycling of connected equipment. Equipment without inbuilt brown-out will turn off when battery voltage falls and will attempt to turn on again when the battery voltage recovers, the battery voltage immediately falls resulting in a oscillation process which can be destructive to the equipment.
- Very accurate voltage output, within 1%
- Automatic output short circuit protection, reverse polarity connection and over current shutdown.
- The input is protected from high speed transients and over voltage, saving connected equipment from potentially damaging voltage spikes.
- Multi-stage input filtering eliminates noise from DC power sources, protecting and reducing malfunction of sensitive digital equipment. An inbuilt EMI suppressor completely eliminates noise from 0.5MHz – 1GHz. Capacitive decoupling eliminates other lower frequency noise.
- Second stage filter on the output adds further protection and immunity to radiated noise and stops noise from connected equipment radiating back into the vehicle's electrical system.
- Thermal shutdown protection.

Specification:

Input supply voltage:	10.4 – 16.0V DC
Output voltage:	12.0V DC +/- 1%
Maximum supply current:	1.5A/18W continuous
Dimensions:	70 x 40 x 20 mm
Weight:	54g

Designed and manufactured in the UK by Drivedata (UK) Ltd.