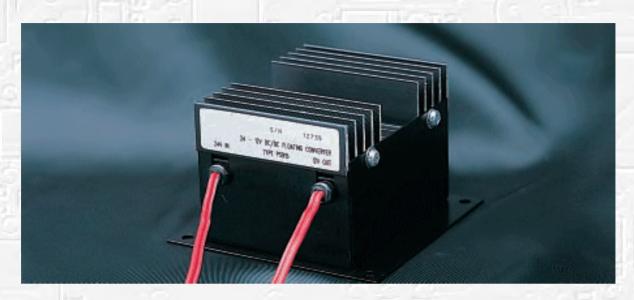
PS915 24 TO 12 VOLT ISOLATED CONVERTOR

POWER CONVERSION RELIABILITY WITHOUT COMPROMISE



New Features

- Wider tolerance to input surges
- Higher conversion efficiency
- Lower output noise
- Lower stand by current

The newly re-engineered PS915 has been immensely successful since its original development in 1989 for the radio communications market, with thousands in daily use. It has been robustly engineered for the harsh electrical and physical environment encountered in vehicles and radio huts. Its main design criteria was reliability without compromise, essential for operators of buses, trucks and other commercial vehicles.

Unlike linear supplies, the output of the PS915 is completely isolated from the input via a transformer and opto isolator.

This ensures that under no circumstance is it possible to have the 24Vdc input connected directly to the output.

Failure of a linear unit can often result in the main supply being directly connected to expensive radio equipment. Since there is no connection between the electronics and the housing, the supply is fully floating. This enables the equipment to be operated on positive earthed vehicles or vehicles which have earth switching for battery isolation. Linear supplies can often cause problems when battery isolation switches are operated incorrectly and an earth return is provided by the battery

Quality System

Endorsed

Company

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wiring. Inadvertent starting of the motor under these conditions can cause damage to the wiring harness.

An optional timing circuit application is available which interlocks the power supply with a vehicle's ignition system, disconnecting the unit 45 minutes after the ignition is switched off.

The PS915 is fully protected, is very efficient (80% at 10A output) and draws little current on stand by, typically less than 30mA.

Typical Applications

- Mining vehicles
- Buses
- Emergency service vehicles
- Marine environment
- Radio huts



SPECIFICATIONS

Operating parameters

Nominal input working voltage 24 to 29Vdc

Output voltage

Output resistance

Output current

Stand by current Operating temperature

Minimum load

Regulation

Conversion efficiency

Switching frequency

Output noise

Power supply rejection ratio

13.6V +/- 0.3V

0.6 ohms (this causes a 0.6V

drop at 10A output)

8 amps continuous

10 amps @ 50% duty cycle

< 30mA

0 to 60 deg C

88% at 5A output

80% at 10A output

better than 40dB

none

25KHz

Mechanical

Protection

Current limit

Maximum input voltage

Short circuit protected

Isolated output

Input protection

Mounting flange width Mounting flange height 140mm 140mm

12A

35Vdc continuous, surges to 48Vdc

yes, with fold back current limiting

In line fuse (7.5A for reverse polarity)

with over voltage protection

Depth (flange to back of heatsink)

90mm

Other PS915 models are available in batch quantities which feature additional voltage ranges, as follows:

PS915B

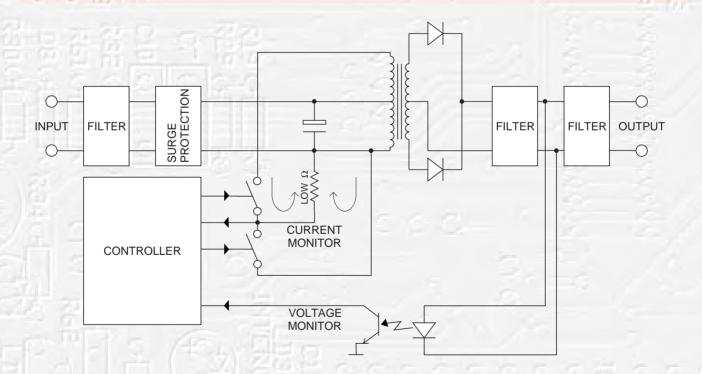
50mVp-p, up to full load

PS915C

12 to 24 Vdc

24 to 24 Vdc

12 to 12 Vdc



BLOCK DIAGRAM

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TECHNOLOGIES

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