



Ablemail Electronics

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AMI24-12-12AUX

DESCRIPTION

This unit is a water resistant switching type voltage converter intended for use on vehicles with a 24V electrical system to power an independently isolated 12V supply of either polarity. The unit also includes the addition of an independently isolated low power converter which may be used as a continuous supply for memory maintenance. The unit can deliver 12A continuous and 15A intermittent output load current and has output overload and over temperature protection with a fully automatic reset. The unit provides total galvanic isolation of the 12V output from the 24V input. The unit is assembled in an aluminium extruded case and encapsulated in silicone rubber. This allows for reliable operation in harsh vehicle environments and areas of high ambient temperatures. This unit is available with suffix P to meet Institute of Petroleum DOC - 1.92.1 for use on hazardous vehicles.

EMC

Type approved to 72/245/EEC as last amended by 95/54/EC.

INPUT VOLTAGE

24 Volt nominal vehicle supply (20-32V).

OUTPUT VOLTAGE

Main: 11.7V $\pm 5\%$ @12A
Aux: 13.5V $\pm 5\%$ @0.04A

OUTPUT LOAD CURRENT

Main: 12A continuous 15A intermittent.
Aux: 40mA continuous 2A intermittent.

NO LOAD INPUT CURRENT

Main: Maximum 80mA typical 60mA @ 24V input.
Aux: 10mA @ 24V input.

PROTECTION

Output overload and over temperature protection with fully automatic reset.

OPERATING TEMPERATURE

Maximum 70°C. Minimum -30°C

SIZE AND WEIGHT

Length: 150mm Height: 37mm Width: 84mm
522g

CONNECTIONS

200mm flying leads of thin wall auto cable.



24V Input

Positive	red
Negative	black
Aux	white

12V Output

Positive	blue
Negative	green
Aux	yellow