



Ablemail Electronics

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AMI24-12-5

DESCRIPTION

This unit is a water resistant switching type voltage converter intended for use on vehicles with a 24V electrical system to power an independent isolated 12V supply of either polarity. The unit can deliver 5 Amps continuous and 6 Amps intermittent output load current and has output overload with fully automatic reset. The unit provides total galvanic isolation of the 12V Output from the 24V input and is assembled in an aluminum extruded case and encapsulated in a silicone rubber. This allows reliable operation in harsh environments and areas of high ambient temperatures. The unit is also available with the addition of an independently isolated low power converter which may be used as a continuous supply for memory maintenance. 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

12V $\pm 5\%$ @ 5A
12V $\pm 30\%$ at extremes of temperature, load and voltage.

OUTPUT LOAD CURRENT

5A continuous 6A intermittent.

NO LOAD INPUT CURRENT

Maximum 90mA @ 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: 95mm Height: 35mm Width: 84mm
402g

CONNECTIONS

200mm flying leads of thin wall auto cable.

24V Input	
Positive	red
Negative	black
12V Output	
Positive	blue
Negative	green