



Ablemail Electronics

A Division of Merlyn Electronics

Merlyn House,
Bridge Mills,
Holland Street,
Salford, M6 6EL
Tel: +44(0)161 745 7697
Fax: +44(0)161 737 5615
info@ablemail.co.uk
www.ablemail.co.uk

AMI24-12-5AUX

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 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 5A continuous and 6A intermittent output load current and has output overload and over temperature protection with a fully automatic reset. The unit has an output capacity of 5A subject to temperature as well as overcurrent and thermal overload protection. 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 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

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

OUTPUT LOAD CURRENT

Main: 5A continuous 6A intermittent.
Aux: 40mA continuous 75mA 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
Aux		white
12V Output		
Positive		blue
Negative		green
Aux		yellow