



# Ablemail Electronics

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## AMI24-12-24

### 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 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 reliable operation in harsh vehicle 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

11.7V  $\pm$ 5% @12A  
12V  $\pm$ 30% at extremes of temperature, load and voltage.

### OUTPUT LOAD CURRENT

24A continuous 30A intermittent.

### NO LOAD INPUT CURRENT

Maximum 160mA typical 70mA @ 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
12V Output		
Positive		blue
Negative		green