



# Ablemail Electronics

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## AML24-12-12AUX

### DESCRIPTION

This unit is a water resistant switching type voltage converter intended for use on vehicles with a 24V electrical system to power an independent 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 12 Amps continuous and 15 Amps intermittent output load current and has output overload and over temperature protection with 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 a silicone rubber. This allows reliable operation in harsh environments and areas of high ambient temperatures.

### 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

Main: 12A continuous 15A intermittent.  
Aux: 50mA continuous 75mA intermittent.

### NO LOAD INPUT CURRENT

Maximum 80mA typical 60mA @ 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 fying leads of thin wall auto cable.



|            |        |
|------------|--------|
| 24V Input  |        |
| Positive   | red    |
| Negative   | black  |
| Aux        | white  |
| 12V Output |        |
| Positive   | blue   |
| Negative   | green  |
| Aux        | yellow |