



Ablemail Electronics

A Division of Merlyn Electronics

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AML24-12-2

DESCRIPTION

This unit is a water resistant linear type voltage converter intended for use on vehicles with a 24V electrical system to power an independent 12V supply of either polarity. The unit can deliver 1.5A continuous and 2A intermittent output load current and has output overload and over temperature protection with a fully automatic reset. The linear output regulator provides a low noise output closely regulated against variation of input voltage and changes in output load current. 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.

ISOLATION

Non-Isolated

INPUT VOLTAGE

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

OUTPUT VOLTAGE

12V $\pm 5\%$

OUTPUT LOAD CURRENT

1.5A continuous 2A intermittent.

NO LOAD INPUT CURRENT

Maximum 60mA typical 30mA @ 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: 85mm height: 30mm Width: 100mm
195g

CONNECTIONS

200mm flying leads of thin wall auto cable.

STANDARDS

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



24V Input

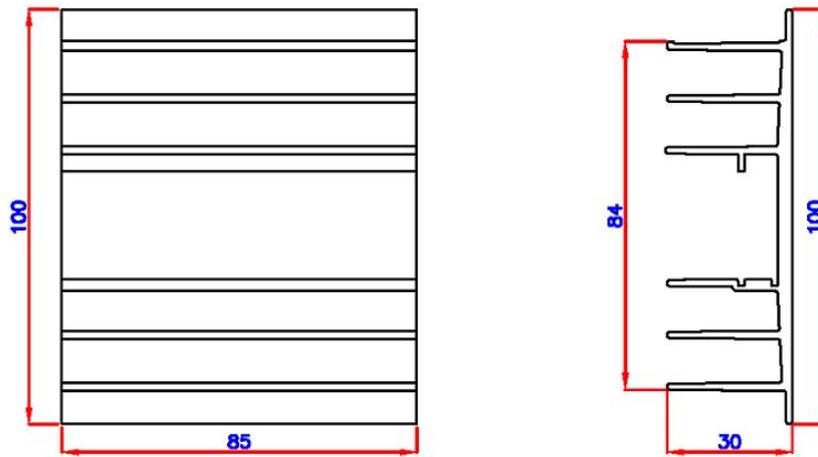
Positive brown
Negative black

12V Output

Positive blue
Negative black



Mechanical Arrangement



Thermal Performance

