

# Ablemail Electronics

A Division of Merlyn Electronics

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## AMI12-24-12

### DESCRIPTION

This unit is a water resistant switching type voltage converter intended for use on vehicles with a 12V electrical system to power accessories designed for use on a 24V vehicle. 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 12V input and 24V output negatives are galvanically isolated. The unit is assembled in an aluminium extruded case and features a high efficiency converter, with thermal protection. The extruded aluminium case and the fact that the unit is encapsulated in silicon rubber allows for 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.

### ISOLATION

Isolated

### INPUT VOLTAGE

12 Volt nominal vehicle supply (10-15 volts).

### OUTPUT VOLTAGE

24V  $\pm 5\%$  @ 12A

### OUTPUT LOAD CURRENT

12A continuous 15A intermittent.

### NO LOAD INPUT CURRENT

Maximum 300mA typical 190mA @ 12V input.

### PROTECTION

Output overload and over temperature protection with fully automatic reset.

### OPERATING TEMPERATURE

Maximum 70°C. Minimum -30°C

### SIZE AND WEIGHT

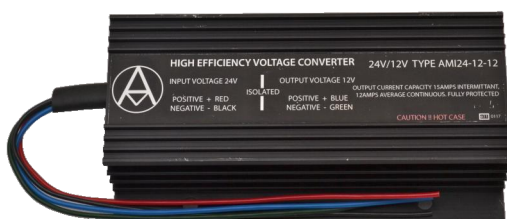
Length: 180mm Height: 40mm Width: 124mm  
520g

### CONNECTIONS

200mm flying leads of thin wall auto cable.

### STANDARDS

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

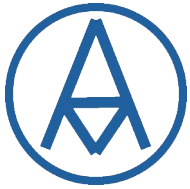


24V Input

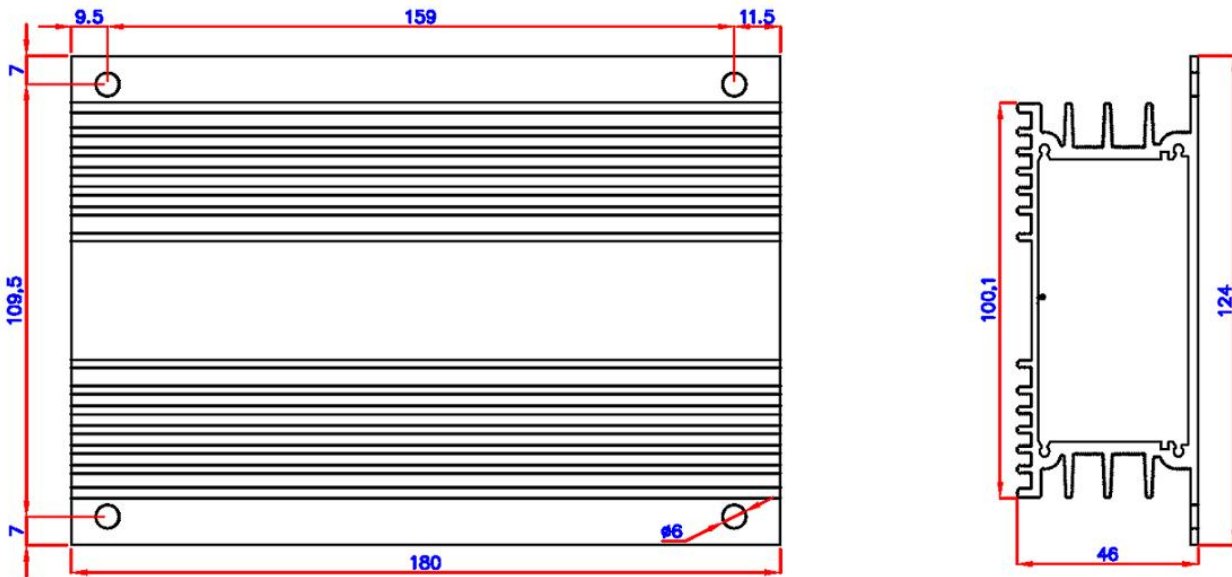
Positive red  
Negative black

12V Output

Positive blue  
Negative green



## Mechanical Arrangement



## Thermal Performance

