



# Ablemail Electronics

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## AMI12-24-6

### 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 6A continuous and 7.5A 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.

### EMC

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

### INPUT VOLTAGE

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

### OUTPUT VOLTAGE

24V  $\pm 5\%$  @ 6A

### OUTPUT LOAD CURRENT

6A continuous 7.5A intermittent.

### NO LOAD INPUT CURRENT

Maximum 170mA typical 140mA @ 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: 150mm Height: 38mm Width: 83mm  
522g

### CONNECTIONS

200mm flying leads of thin wall auto cable.

#### 24V Input

Positive red  
Negative black

#### 12V Output

Positive blue  
Negative green

