Ablemail Electronics

A Division of Merlyn Electronics

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AMC12-12-12

DESCRIPTION

This unit is a switching type voltage converter intended for use on vehicles with a 12V electrical system to charge nominal 12V battery packs. The unit can deliver 12A continuous and 15A intermittent charging currents. The unit has output overload and over temperature protection with a fully automatic reset. The 12V input and 12V outputs share a common negative. The switching converter provides a low noise output closely regulated against variation of input voltage and changes in output load current and completely software controlled to optimise the battery charging cycle. The charging cycle is optimised for lead acid but can easily be reprogrammed to fit any other batteries or to a customer specification. The unit has inputs for remote monitoring output voltages and remote temperature monitoring of battery temperature to allow further optimisation of the charging cycle. The unit is assembled in an aluminium extruded case. This allows reliable operation in harsh vehicle environments and areas of high ambient temperatures.

ISOLATION	Non-Isolated
INPUT VOLTAGE	12Volt nominal vehicle supply (10-32V).
OUTPUT VOLTAGE	12V Varied as required for battery charging programme
OUTPUT LOAD CURRENT	12A max.
NO LOAD INPUT CURRENT	Max 0.01typical 0.009A @ 24V input.
PROTECTION	Output overload and over temperature protection with fully automatic reset.
OPERATING TEMPERATURE	Maximum 70ºC. Minimum -30ºC
SIZE AND WEIGHT	Length: 180mm Height: 46mm Width: 124mm 925g
CONNECTIONS	200mm flying leads of thin wall auto cable.
STANDARDS	Type approved to 72/245/EEC as last amended by 95/54/EC.

Wiring connections		
	12V Input	
	Positive	red
	12V Output	
	Positive	blue
	Common	black
		green

NOTE: The output profile can be changed to meet any customer specification such as SLA,AGM or GEL.

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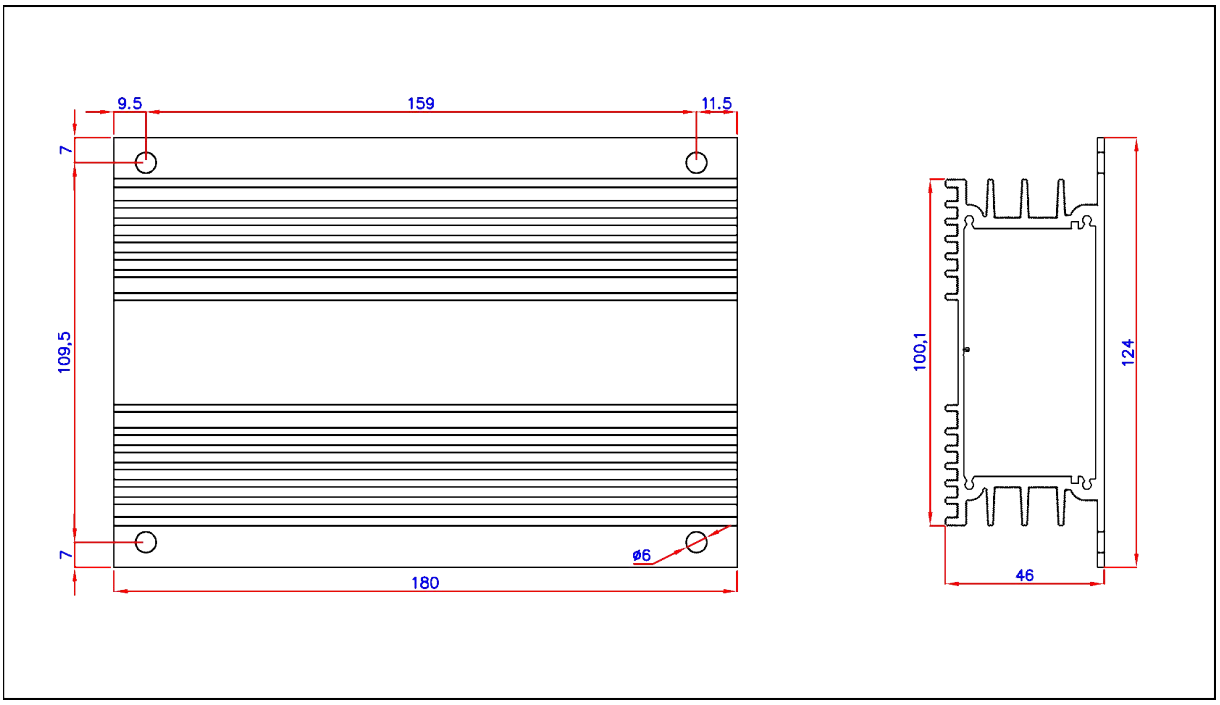
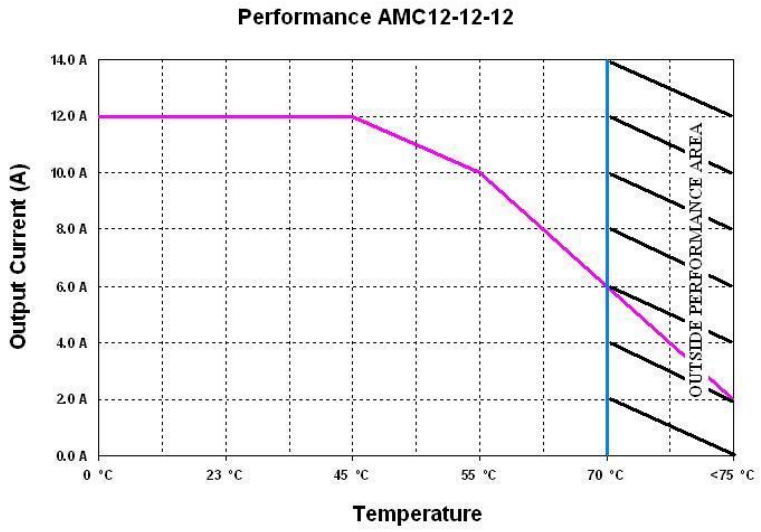
Mechanical Arrangement



Thermal Performance



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