



OHMICALLY ISOLATED AND CURRENT LIMITED

28 WATT BATTERY CONVERTERS

ALLOWS DIRECT POWERING OF NOTEBOOK COMPUTERS INCLUDING BATTERY CHARGING.

MODEL	INPUT	OUTPUT	MODEL	INPUT	OUTPUT
SM 3750	12V DC	5V at 5.0A	SM 3755	12V DC	21V at 1.4A
SM 3751	12V DC	9V at 3.1A	SM 3756	12V DC	24V at 1.2A
SM 3752	12V DC	12V at 2.4A	SM 3757	12V DC	48V at 0.6A
SM 3753	12V DC	15V at 1.9A	SM 3758	12V DC	13.8V at 2.1A
SM 3754	12V DC	18V at 1.6A	SM 3759	12V DC	27.6V at 1.1A



BATTERY DRAIN: These converters draw about 1 amp from the battery for every 10 watts of actual load applied.

SPECIFICATION:

Output variation for 0-90% load change: (plus drop in cable. See note 1).	0.5% max.
Output variation for 2V input change:	50mV max.
Output current limit See note 2 :	125%± 17%
Output low frequency ripple:	100mV max.
Input Supply Range, continuous:	10.6VDC - 15VDC
Input Current per 10W loading:	1A approx.
No load current:	0.1A typical.
Input to output isolation:	500Kohm ± 63VDC.
Protection:	Current limit & fuse.

GENERAL: These small but powerful converters provide a source of stabilised low voltage suitable for running many different items of equipment. Their output is ohmically isolated from the vehicle chassis and constant current limited. Continuous operation in current limit is allowed making them suitable for battery charging providing charge time is controlled. Connection to the vehicle battery is by a plug with a flying lead, that fits the vehicles cigar lighter socket, and output is by flying lead terminated in a popular 2.5mm concentric plug.

The converters are mainly designed for use with notebook computers that have two wire input. In such computers, the internal battery charge time is controlled by the computer itself, with the internal battery switched across the input supply for a controlled period. The current delivered to the battery must therefore be limited to a safe level by reduction of voltage. These converters are current limited above a certain level of demand).

When peripherals such as printers are connected to the computer's ports, they may ground the zero volt power bus of the computer. The output isolation of the converter from vehicle ground ensures that dc earth currents do not flow.

Size:	111mm x 60mm x 30mm.
Weight:	380 grams including wires.
Operating Temp Range:	-20 to +30C.
Storage Temp Range:	-40 to +70C.

Specification Notes:

- 1) The main variation of output voltage with load is due to the resistance of the output cable. An internal potentiometer is available to adjust the output voltage over a range of ± 5% to compensate.
- 2) The output current limit is deliberately made a function of unit temperature to maximise delivered charge. Output current will fall, still within the quoted range as the unit attains working temperature.

CAUTION: This converter is supplied on the basis of the user determining the suitability for the purpose for which it is to be used. Allow adequate ventilation to assist unit cooling. Removal of the input cigar plug will void warranty.

WARNING: Do not reverse input polarity. Do not expose to moisture. These converters are only suitable for use with vehicles having the negative of the battery connected to chassis. Not for life dependent use.

Made in the United Kingdom.

We reserve the right to change the specification without notice.

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