



CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



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HIGH INPUT 440 WATT DC - DC CONVERTERS.

MODEL	INPUT	OUTPUT	MODEL	INPUT	OUTPUT
SM5000	110V	5V at 70A	SM5010	125V	5V at 70A
SM5001	110V	9V at 42A	SM5011	125V	9V at 42A
SM5002	110V	12V at 33A	SM5012	125V	12V at 33A
SM5003	110V	15V at 29A	SM5013	125V	15V at 29A
SM5004	110V	18V at 24A	SM5014	125V	18V at 24A
SM5005	110V	21V at 21A	SM5015	125V	21V at 21A
SM5006	110V	24V at 18A	SM5016	125V	24V at 18A
SM5007	110V	48V at 9A	SM5017	125V	48V at 9A
SM5008	110V	13.8V at 30A	SM5018	125V	13.8V at 30A
SM5009	110V	27.6V at 16A	SM5019	125V	27.6V at 16A

- **CONSTANT CURRENT LIMIT.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**
- **REMOTE ON / OFF CONTROL FACILITY.**



Picture shows 12V version from range. To be updated.

GENERAL DESCRIPTION. A small converter, generating a range of standard voltages, capable of powering most battery equipment when supplied from 110V or 125V station batteries. The input and output are ohmically isolated, making installation very simple. The output has a constant current limit.

The specification allows for up to 440 watts of continuous power to be used. The unit incorporates an electronic relay to turn it on/off remotely, driven by a control input.

The unit is packaged in a powder coated folded metal box. Input wires enter on one side face, and an outlet terminal block is mounted on the top face. Flanges are provided for mounting at each end.

CAUTION: This adaptor is supplied on the basis of the user determining the suitability for the purpose for which it is to be used. Do not use in a moving vehicle without the consent of the vehicle manufacturer. Do not use for aviation or marine applications without our written agreement. Do not use for life dependent applications. Do not reverse battery polarity.

INSTALLATION.

FIXING: - Four 3.5mm diameter-fixing holes are available on the mounting flanges, with centres of 70mm by 233mm, symmetrically placed.

SPECIFICATION.

INPUT VOLTAGE: 96V to 126V or 106V to 140V.

This covers general 110V and 125V battery systems.

WARNING: Input must be fused at source.

OUTPUT VOLTAGE (10% LOAD): - Nominal + 100mV ±50mV.

LINE REGULATION: - Less than ± 0.05V for a 10% static input change.

LOAD REGULATION: - Less than 0.1V for a 10% to 90% static load change.

LOW FREQUENCY RIPPLE: - Less than 50mV pp.

CURRENT LIMIT: - Nominal plus 10%, ± 7%.

ON/OFF CONTROL: -The unit will draw less than 0.1mA until voltage (3V to 150V) is applied to the control input.

GENERAL

Protection: Over-current and short circuit output limit.

Size: 247mm x 103mm x 64mm.

Weight: 1300 grams.

Storage Temp Range: -40 to +70C.

Operating Temp Range: -40 to +40C.

Made in England

Document 5000-993