



CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



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FULL RANGE DC - DC CONVERTERS. 12V AND 24V BATTERY (10.6V TO 32V) INPUT.

120 WATT MODELS

SM3320	5.0V, 18.0A
SM3321	9.0V, 11.5A
SM3322	12.0V, 10.0A
SM3323	15.0V, 8.0A
SM3324	18.0V, 6.7A
SM3325	21.0V, 5.7A
SM3326	24.0V, 5.0A
SM3327	48.0V, 2.5A
SM3328	13.8V, 8.6A
SM3329	27.6V, 4.3A
SM4812	15.6V, 7.5A
SM4813	55.2V, 2.3A

200WATT MODELS

SM3330	5.0V, 30.0A
SM3331	9.0V, 19.2A
SM3332	12.0V, 16.7A
SM3333	15.0V, 13.4A
SM3334	18.0V, 11.2A
SM3335	21.0V, 9.5A
SM3336	24.0V, 8.4A
SM3337	48.0V, 4.2A
SM3338	13.8V, 14.3A
SM3339	27.6V, 7.2A

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



GENERAL DESCRIPTION. A small converter producing up to 120W (332X series) or 200W (333X series) with a range of dc outputs, when supplied from a 12 or 24V battery. The input and output are ohmically isolated, making installation very simple. The output has a constant current limit and the unit can be turned it on/off remotely, via a control input.

Power input and output is via 0.25" Fast-on tabs, on the end face of the unit. The unit is packaged in a metal box, measuring 49mm by 94mm by 168mm (332Xseries) or 226mm (333X series), including mounting flanges.

FIXING: - Four 3.5mm diameter-fixing holes are available on the mounting flanges, with centres of 70mm by 155mm (332X series) or 214mm (333X series), symmetrically placed.

The converter employs switched mode conversion, which generates some electrical noise. In sensitive installations, to minimise interference, it is advisable to ground the case of the unit directly to the system chassis.

SPECIFICATION.

INPUT: -10.6V to 32V.

This covers both 12V and 24V battery systems.

VOLTAGE (10% LOAD): - Nominal + 100mV \pm 50mV.

LINE REGULATION: - Less than \pm 0.1V for a 10% static input change.

LOAD REGULATION: - Less than 0.2V for a 10% to 90% static load change.

LOW FREQUENCY RIPPLE: - Less than 50mV pp.

CURRENT LIMIT: - Nominal plus 10%, \pm 7%.

ON/OFF CONTROL: -The unit will draw less than 0.1mA until a positive voltage (3V to 72V) is applied to this input. Units can be supplied set permanently 'on' or with delayed 'off'. Contact sales to order.

TEMP: -40C to +35C operating, -40C to +70C storage.

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.

Made in the UK

We reserve the right to change the specification without notice.

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