



CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



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A DIVISION OF SMET LTD

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

120 WATT MODELS		200WATT MODELS	
SM3320	5.0V, 18.0A	SM3330	5.0V, 30.0A
SM3321	9.0V, 11.5A	SM3331	9.0V, 19.2A
SM3322	12.0V, 10.0A	SM3332	12.0V, 16.7A
SM3323	15.0V, 8.0A	SM3333	15.0V, 13.4A
SM3324	18.0V, 6.7A	SM3334	18.0V, 11.2A
SM3325	21.0V, 5.7A	SM3335	21.0V, 9.5A
SM3326	24.0V, 5.0A	SM3336	24.0V, 8.4A
SM3327	48.0V, 2.5A	SM3337	48.0V, 4.2A
SM3328	13.8V, 8.6A	SM3338	13.8V, 14.3A
SM3329	27.6V, 4.3A	SM3339	27.6V, 7.2A
SM4810	27.6V, 4.3A (M1 set 'ON')		
SM4812	15.6V, 7.5A		
SM4813	55.2V, 2.3A		

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



Library picture representative of the range.

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 with mounting flanges.

FIXING: - Four 3.5mm diameter-fixing holes are available on the mounting flanges, with centres of 70mm by 155mm (120W) or 214mm (200W), symmetrically placed.

CAUTION: This adaptor is supplied base on 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.

We manufacture a wide range of DC-DC converters, DC-AC (mains) inverters and many other power systems.

We specialise in the custom design of Hydrogen Stack converters up to 10KW

We reserve the right to change the specification without notice.

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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.

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

LINE REGULATION: - Less than ± 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.

O/P CURRENT LIMIT:- Nominal plus 10%, ± 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'.

GENERAL:

Protection: O/P current limit and input fuse.

Size (120W): 168mm x 49mm x 94mm.

Size (200W): 226mm x 49mm x 94mm.

Weight: 0.76 (120W) or 0.82 (200W) Kg.

Storage Temp Range: -40 to +70C.

Operating Temp Range: -20 to +50C.

Manufacturer Made in UK by SMET Limited.