

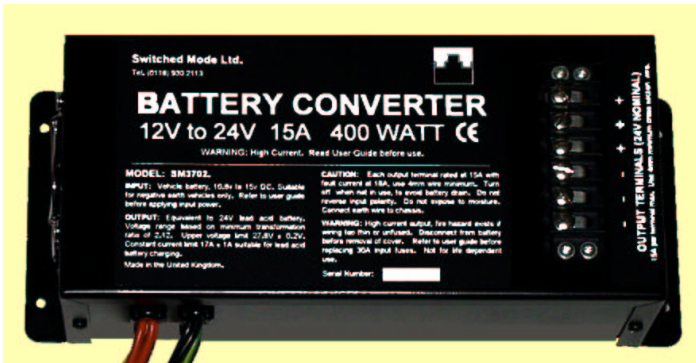


PDS Design Solutions Limited

Unit 1, Shenval House, South Road, Harlow, Essex CM20 2BD
 Tel: 01279 431746 Fax: 01279 435073 Email: sales@whatpowersupply.com

440 WATT BATTERY CONVERTERS

| OUTPUT | 12V INPUT | 24V INPUT | 36V INPUT | 48V INPUT |
|----------------|-----------|-----------|-----------|-----------|
| 5.0V at 70.0A | SM4290 | SM4300 | SM4870 | SM4880 |
| 9.0V at 45.0A | SM4291 | SM4301 | SM4871 | SM4881 |
| 12.0V at 36.7A | SM4292 | SM4302 | SM4872 | SM4882 |
| 15.0V at 29.3A | SM4293 | SM4303 | SM4873 | SM4883 |
| 18.0V at 24.4A | SM4294 | SM4304 | SM4874 | SM4884 |
| 21.0V at 21.0A | SM4295 | SM4305 | SM4875 | SM4885 |
| 24.0V at 18.4A | SM4296 | SM4306 | SM4876 | SM4886 |
| 48.0V at 9.2A | SM4297 | SM4307 | SM4877 | SM4887 |



- **VERY HIGH CONVERSION EFFICIENCY.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**
- **REMOTE ON / OFF CONTROL.**
- **LOW BATTERY ALARM WITH AUTO SHUT-OFF .**

GENERAL DESCRIPTION: A rugged converter, generating a range of DC outputs when supplied from 12, 24, 36 or 48V batteries with up to 440 watts of continuous power.

The unit incorporates an electronic relay to turn it on/off remotely, driven by a control input, which may be supplied from any low current switch.

The input and output are ohmically isolated, making installation very simple. Input can be isolated from chassis by up to 100V.

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.

SPECIFICATION:

INPUTS

Nominal Voltage: **12V or 24V or 36V or 48V** Battery by model.

Input Voltage Range: Nominal – 11.7% to +16.7%

Current, No Load: 0.5A, 0.4A, 0.3A and 0.25A across range.

Efficiency (approximate): 85%

Low Battery Alarm: Nominal – 12.5%

Battery Low Latch Off: Nominal – 20%

OUTPUTS

Voltage (10% Load): - Nominal + 100mV ±50mV.

Line Regulation: - < ± 0.05V for a 10% input change.

Load Regulation: - < -0.1V for a 10% to 90% 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 72V) is applied to the control input.

GENERAL

Protection: Over-current and short circuit output limit plus input fusing.

Size: 247mm x 103mm x 63mm.

Weight: 1200 grams.

Storage Temp Range: -40 to +70C.

Operating Temp Range: -40 to +40C.

Manufacturer: Made in UK.