

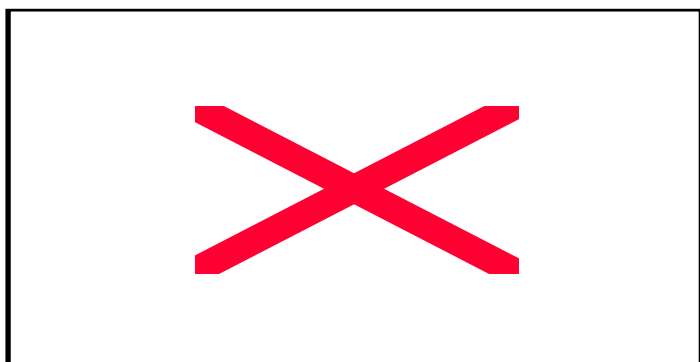


PDS Design Solutions Limited

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
13.8V at 32A (12V)	SM3707	SM3703	SM4220	SM4225
27.6V at 16A (24V)	SM3702	SM3706	SM4221	SM4226
55.2V at 8A (48V)	SM3704	SM3705	SM4222	SM4227



- **VERY HIGH CONVERSION EFFICIENCY.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**
- **CHARGE ANOTHER BATTERY AT 12, 24 OR 48V.**
- **USE 12V OR 24V OR 48V EQUIPMENT.**
- **REMOTE ON / OFF CONTROL.**
- **LOW BATTERY ALARM WITH AUTO SHUT-OFF .**

GENERAL DESCRIPTION: A rugged converter, generating 13.8V or 27.6V or 55.2V DC (lead acid float voltages), capable of powering most battery equipment when supplied from 12, 24, 36 or 48V batteries with up to 440 watts of continuous power.

The output has a constant current characteristic so that lead acid batteries may be charged to provide a dual voltage system.

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. The negative input lead is connected to case unless specified as isolated at time of purchase.

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%

OUTPUT

Nominal Voltage: **12V. 24V. 48V.**

Output Voltage: 13.8 ± 0.2V. 27.7 ± 0.3V. 55.2 ± 0.3V.

Current Limit: 33A ± 1.5A. 17A ± 0.5A.
8.5A ± 0.25A

Power, Nominal: 440 Watts. 440 Watts. 440 Watts.

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.

- PDS Offers a range of Battery to AC Mains Inverters, with quasi- sinewave output. Output power ranges from 120W to 2.7KW.
- We offer a custom design service covering DC-DC and DC-AC Power Units. Call the Sales Office for details.