



PDS Design Solutions Limited

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HIGH VOLTAGE 440W BATTERY CONVERTERS.

OUTPUT	96V INPUT	110V INPUT	125V INPUT
96V DC @ 4.6A (5.0A LIMIT)	SM3716	SM3711	SM3712
110V DC @ 4.0A (4.4A LIMIT)	SM3717	SM3714	SM3710
125V DC @ 3.5A (3.9A LIMIT)	SM3718	SM3715	SM3713

These units are available by special order in other input and output voltages up to 320V DC.



- **VERY HIGH CONVERSION EFFICIENCY.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**
- **CHARGE ANOTHER BATTERY, 84V to 108V NOM.**
- **INPUT ISOLATED TO EN60 950.**
- **OUTPUT ISOLATED TO 500VDC.**

GENERAL DESCRIPTION: Powerful converters providing an output that is suitable for float charging 84V, 96V or 108V batteries (96V, 110V, 125V float voltage). DC - DC conversion is performed at high frequency to give major converter size and weight gain for a given output current.

The input and output are ohmically isolated from each other, making installation very simple. Note that a series diode is necessary for battery charging.

The unit is packaged in a powder coated folded metal box. Input wires enter the side and an output 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:

INPUT

WARNING:	Supply must be fused at source.
BATTERY FLOAT:	96V, 110V or 125V
Nominal:	
Voltage Range:	Nominal $\pm 17\%$
Power, No Load:	8W.
Efficiency (approx):	88% (Resistive Load).

OUTPUT

Nominal Voltage:	96V, 110V OR 125V.
Output Voltage:	Nominal ± 1.2 percent.
Output Current Limit:	As table above $\pm 0.2A$
Continuous Power:	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 England.

- We stock several ranges of power supplies intended for all aspects of battery use, including computers, cam-corders, ultra sound scanning, and power tools.
- PDS offers a range of Battery to AC Mains Inverters, with quasi- sine wave output. Output power ranges from 120W to 2.7KW.

We reserve the right to change this specification without notice.