

DC to DC VOLTAGE REGULATOR/CONVERTER

This type of device is known in the electronics industry as a Buck - Boost Regulator

It has a fixed output voltage of 12.0 volts

**Any applied input voltage (within the specifications) above 12.0 volts will be reduced to 12.0 volts
Any applied input voltage below 12.0 volts (within the specifications) will be increased to 12.0 volts**

INSTALLATION

THIS UNIT CAN BECOME VERY WARM WITH NORMAL OPERATION

This unit is not waterproof. It will get very warm with normal use.

Mount the unit in an area with some natural air flow and with easy access for the wiring and mounting screws.

Secure to a flat rigid surface with suitable fasteners through the holes in the base flange of the unit.

Connect the **INPUT** voltage to the Yellow and Black wires exiting the unit via the grommet marked 8-36 V IN.

The input should be fused and switched in the Yellow (+) wire.

OBSERVE CORRECT POLARITY - YELLOW WIRE IS TO POSITIVE, BLACK IS TO NEGATIVE

Connect the **OUTPUT** Red and Black leads via an appropriate connector to your chosen appliance. **Red is Positive.**

The output Red Positive lead should be fused, and switched if required

The fuse should be correctly chosen for the appliance being operated, but in any case must not exceed 5 amps

SPECIFICATIONS

Model SR1260

Input Voltage Allowable 8 to 36 volts, DC only

Output Voltage Fixed at 12.0 volts DC, $\pm 2\%$

Over-Voltage Output Protection Circuit - if circuit failure causes output voltage to rise, output voltage turned off

Maximum Output Current 5 Amps

Current Limiting will occur at 5 Amps - do not use with a device attempting to draw greater than 5 Amps

Over Temperature Protection

Output Voltage Ripple Factor $< .7\%$

Output and Input Short Circuit Protection

Input/Output Isolation 500 volts

Ambient Temperature allowable from -20 to +80 degrees C (-4 to +176 F)

Standby Current (no output load) $< 50\text{mA}$

Conversion Efficiency $\geq 85\%$

Dimensions 125 x 70 x 50 mm (4.9 x 2.75 x 2 in)

Weight 330 Grams (.75 lb)

All specifications subject to change or design improvements without notice

WARRANTY

In the event of malfunction or failure Cruising Electronics will, at their sole discretion, either repair or replace the unit, providing that:

Malfunction has occurred within 12 months from the date of purchase

Any or all of the above listed ratings of the unit have not been exceeded

The unit has been properly and permanently installed, with correctly rated cables, fuses, switches and any other ancillary items which could reasonably be regarded as necessary to effect a safe and workmanlike installation.

The unit has not been exposed to any fluid, corrosive or hazardous substance, or excessive airborne particles

The unit is returned freight paid to Cruising Electronics or their nominated agent

Proof of purchase is provided.

DISCLAIMER

Please note that under no circumstances can Cruising Electronics be held responsible or accept liability for any consequential damages or loss whatsoever, incurred as a result of installing and/or operating this device in any situation, with or without any other device attached.

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