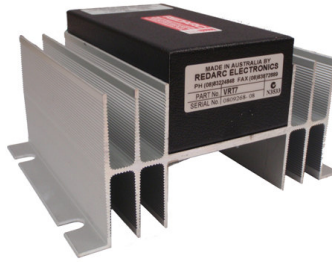


VRT Series 24V-12V Linear Voltage Reducers.



FUNCTION

The VRT Series Single Circuit Linear Voltage Reducers (or converters), operate from nominal 24V DC electrical system and deliver a regulated output of 13.8V DC, within 5%, for load currents from no load to the converter rating. The converters are available in continuous current ratings of 3.5, 7, 10, 20 and 30 Amps.

APPLICATION

The VRT converters are intended for electronic loads requiring a stable 13.8V DC supply. They are not suitable for use as 24V to 12V battery chargers. (Refer to the Charge Equaliser data sheets for battery charger product information.) Their high peak current capability and fast response to load changes make them suitable for variable-current loads such as two-way radios and similar electronic devices.

Not recommended for operating Fridges, Electric Brakes or Inductive Type Loads (e.g. solenoids, ignition coils or motors).

CONNECTIONS

The VRT series converters have three (3) connecting wires:

VIOLET WIRE	24V INPUT
BROWN WIRE	13.8 V OUTPUT
GREEN WIRE	COMMON NEGATIVE GROUND

The GREEN WIRE **must be connected first** on installation and **removed last** when disconnecting. Failure to do so could void warranty.

Fuses (not supplied) must be fitted to the input and output of this unit.

SPECIFICATIONS

MODEL	VRT3	VRT7	VRT10	VRT20	VRT30
Supply range	20 – 33VDC	20 – 33VDC	20 – 33VDC	20 – 33VDC	20 – 33VDC
Output Current Rating	3.5A	7A	10A	20A	30A
Output Voltage	13.8VDC	13.8VDC	13.8VDC	13.8VDC	13.8VDC
Input Fuse Rating	5A	7.5A	10A	20A	30A
Dimensions	70x135x75mm	110x135x75mm	156x135x75mm	300x135x75mm	450x135x45mm
Weight	400g	500g	700g	1.2kg	1.8kg
Warranty	2 years	2 years	2 years	2 years	2 years

PRECAUTIONS

- Avoid direct steam cleaning of the converter, as the chemicals used in some cleaning fluids are extremely corrosive.
- Jump starting with a high voltage auxiliary battery, or using an external battery charger with the battery leads connected should be avoided to ensure long-term reliability of the converter and other electronic equipment used in the vehicle. If jump starting must be used, installation of the REDARC VP24 voltage surge suppressor is recommended or the VRT Converter should be disconnected.
- The converter should be mounted in a cool protected location. Vertical mounting aids cooling by allowing an unimpeded flow of air past the fins. If the converter must be mounted horizontally, or in a confined space, **a steady air flow past the fins is essential**, to avoid overheating. (Normal vehicle movement in the open air, or a small DC operated cooling fan in confined spaces, is suitable for this purpose).

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Specifications are subject to change without notification.