



## DC to DC Converter for Rolling Stock



EN50155

## R Series

The R Series is a 1RU high IP65 rated DC-DC Converter.

Available in various DC Output configurations.

MODEL	INPUT VOLTAGE (NOMINAL) V <sub>DC</sub>	INPUT VOLTAGE (RANGE) V <sub>DC</sub>	OUTPUT VOLTAGE V <sub>DC</sub>	OUTPUT CURRENT A	CONNECTION	COOLING	Dimension H X W X L mm
R128	110V	67.2V to 143V	12	8.4	FRONT	CONVECTION	47 X 480 X 435
R121	110V	67.2V to 143V	12	12.5	FRONT	CONVECTION	47 X 480 X 435
R1216	110V	67.2V to 143V	12	16.7	FRONT	CONVECTION	47 X 480 X 435
R144	110V	67.2V to 143V	24	4.2	FRONT	CONVECTION	47 X 480 X 435
R146	110V	67.2V to 143V	24	6.3	FRONT	CONVECTION	47 X 480 X 435
R148	110V	67.2V to 143V	24	8.4	FRONT	CONVECTION	47 X 480 X 435
R141	110V	67.2V to 143V	24	12.5	FRONT	CONVECTION	47 X 480 X 435
R1416	110V	67.2V to 143V	24	16.7	FRONT	CONVECTION	47 X 480 X 435
R728	74V	67.2V to 143V	12	8.4	FRONT	CONVECTION	47 X 480 X 435
R721	74V	67.2V to 143V	12	12.5	FRONT	CONVECTION	47 X 480 X 435
R7216	74V	67.2V to 143V	12	16.7	FRONT	CONVECTION	47 X 480 X 435
R744	74V	67.2V to 143V	24	4.2	FRONT	CONVECTION	47 X 480 X 435
R746	74V	67.2V to 143V	24	6.3	FRONT	CONVECTION	47 X 480 X 435
R748	74V	67.2V to 143V	24	8.4	FRONT	CONVECTION	47 X 480 X 435
R741	74V	67.2V to 143V	24	12.5	FRONT	CONVECTION	47 X 480 X 435
R7416	74V	67.2V to 143V	24	16.7	FRONT	CONVECTION	47 X 480 X 435

- Compliant to EN50155
- Panel Mount MIL-C rated connector
- Long life electrolytic capacitors

- IP65 Rated Assembly
- 100% full load burn in tested


**C.M. TECHNOLOGY**

Designed and Manufactured in Australia

## PRODUCT SHORTFORM

Tel: +61 (2) 9764 5655

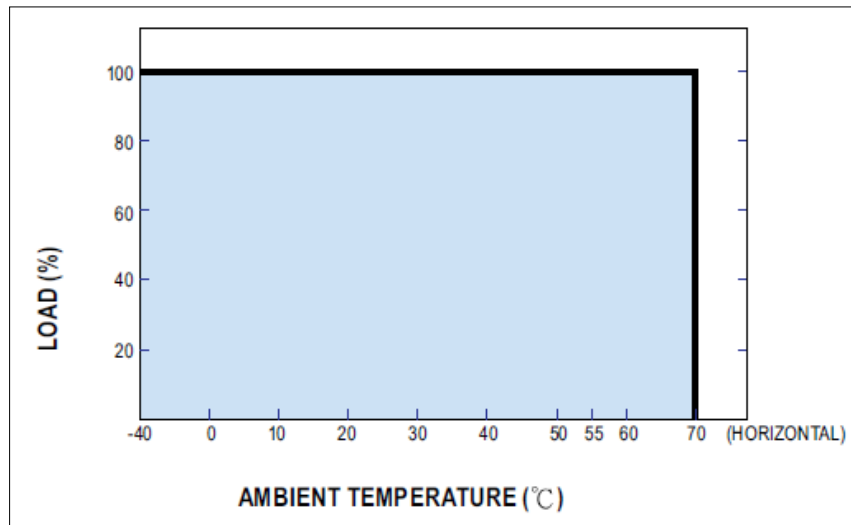
Rev. A4

### Overview:

By utilising our years of technical knowledge and real-world applications gained from the proven PSTR series, the R Series has been designed to accommodate 74V DC locomotive and nominal 110V DC battery charger supplies.



**FUSED CONFIGURATION AVAILABLE**



*Derating Curve*

The R Series is manufactured by C.M. Technology using switchmode topology and is designed for a high energy efficiency of >90%. This relatively high efficiency allows convection cooling with a maximum **70°C ambient working temperature**.

Our high quality components are housed in a 19" 1RU high case, a standardised frame form factor allowing for easy mounting of equipment modules.

The finished DC-DC converters are all burnt in at full load for 24 hours and are compliant

## A Caspian Technology Company

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