



120W SR SERIES

DC/DC CONVERTER



Description

The SR power is rated at 120W with peak capability of up to 150W. Units are available in single or dual output versions with input ranges to cover all of those typically found in rail applications. This unit is offered as an open frame converter that is suitable for either rack or bulkhead mounting. The range is fully compliant with the current national and international railway standards and norms.

Input Specifications

The following input voltage versions are available as standard:

110V	(66.0 - 137V)	dc	(suffix A)
83V	(48.0 - 96V)	dc	(suffix G)
72V	(43.2 - 90V)	dc	(suffix D)
52V	(31.2 - 65V)	dc	(suffix C)
36V	(21.0 - 50.4V)	dc	(suffix F)
24V	(16.8 - 33.6V)	dc	(suffix B)

Other ranges are available to order

Product reference	All references
Input Ripple	EN50155
Input Protection	Reverse polarity protection; surges and transients to EN50155
Efficiency	75% to 85% dependent on input / output voltage
Input Fuse	Board mounted.

Output Specifications

Product reference	All references
Output Power	120W nominal (150W pk option)
Output voltage	Can be specified from 5V to 30Vdc
Minimum Load	Zero for all outputs
Setting Accuracy	±0.6% at 50% load, 15°C to 25°C
Line Regulation	±0.2% all outputs
Load Regulation	±0.5% all outputs
Temperature Coeff.:	<0.02% / °C
Output Ripple	<1% Pk-Pk of output voltage
Output Noise	<1% Pk-Pk super-imposed (up to 20 MHz)
Response Time	0.5ms to within 2% (for a 20% - 90% load change)
Indicators	N/A
Protection	Output lines protected against indirect transients to EN50155
Current Limit	Operates at a minimum of 105% of nominal or peak load. Auto recovery.
Thermal Protection	Shuts down PSU if safe internal temperature is exceeded. Auto recovery.
Isolation	Input to Output 3.0 kV dc. Input to Case 1.5 kV dc. Output to Case 1.5 kV dc. Output to Output 0.5 kV dc.

Environmental Details

Product reference	All references
Operating Temperature (no derating)	-25°C to +71°C -40°C to +71°C (option T)
Storage Temperature:	-40°C to +85°C
Cooling	Convection/ Conduction
Relative Humidity	95% max.
Sealing	N/A
Shock and Vibration	EN50155 para 10.2.11



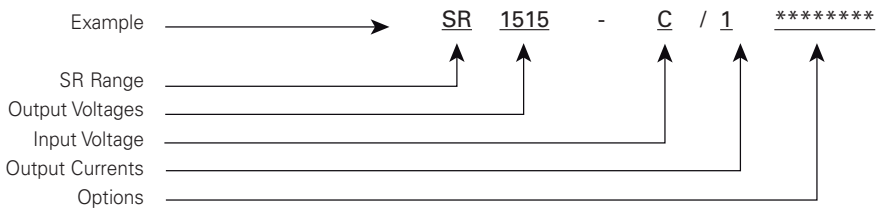
Applicable Norms

Item	Reference
EMC	EN50155, EN50121-3-2
Other	EN50155, IEC571

Mechanical Characteristics

Product reference	All references
Construction	Open frame – Eurocard or Cold Wall mount options
Dimensions	Depth = 160 mm Width = 111 mm Height = 20 mm
Weight	0.5kg
Mounting	Four M3 tapped holes in base strips
Connections	90° Fast-ons (on H11 Pitch). Alternatively, specify option Q6 for connections via flying leads (halogen free cable).

Ordering Information



Technical Drawing

- NOTES**
- All dimensions in mm
 - Specifications subject to change without notification

