



> Description



The SR is a single output converter rated at 120W with peak capability of 150W. The construction style is open frame PCB mounted on a aluminium plate for bulkhead fixing or rack mounting. Compliant with Rail standards.

Special features include:

- Construction is low profile PCB
- Choice of mounting options—Bulkhead or Rack
- Wide input voltage range

> Input Specifications

The following input voltages versions are available as standard:

110Vdc	(66.0—137.5V)	dc	(Suffix A)
83Vdc	(48.0—96V)	dc	(Suffix G)
72Vdc	(43.2—90.0V)	dc	(Suffix D)
52Vdc	(31.2—65.0V)	dc	(Suffix C)
36Vdc	(21.0—50.4V)	dc	(Suffix F)
24Vdc	(16.8—33.6V)	dc	(Suffix B)

**Other ranges are available to order**

Parameter	Detail
Input Ripple	To EN50155
Input Protection	Reverse polarity protection. Surges and transients EN50155
Inrush Current	Limited to typically 5 x nominal current (after 0.1ms)
Efficiency	75% to 85% dependant on voltage combinations
Input fuse	Board mounted. Factory replacement only.

> Output Specifications

Parameter	Detail								
Maximum Output Power	120W nominal (150W peak power option)								
Output Versions	Single output only								
Output Voltage	Can be specified from 5V to 30V								
Setting Tolerance	±0.6% at 50% load, 15°C to 25°C								
Minimum Load	Zero for all outputs								
Line Regulation	± 0.2% all outputs								
Load Regulation	± 0.5% all outputs								
Temperature Coefficient	<0.02% / °C								
Output Ripple	<1% Pk-Pk of Output Voltage								
Output Noise	<1% Pk-Pk superimposed (up to 20MHz)								
Response Time	0.5ms to within 2% (for a 20% - 90% load change)								
Output Protection	Output lines protected against indirect transients to EN50155								
Current limit	Operates at approximately 105% of nominal or peak load. Auto recovery.								
Thermal Protection	Shuts down PSU if safe internal temperature is exceeded. Auto recovery.								
Isolation	<table border="0"> <tr> <td>Input to Output</td> <td>3.0kV dc</td> </tr> <tr> <td>Input to Case</td> <td>1.5kV dc</td> </tr> <tr> <td>Output to Case</td> <td>1.5kV dc</td> </tr> <tr> <td>Output to Output</td> <td>0.5kV dc</td> </tr> </table>	Input to Output	3.0kV dc	Input to Case	1.5kV dc	Output to Case	1.5kV dc	Output to Output	0.5kV dc
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> Environmental Details

Parameter	Detail
Operating Temperature	-25°C to +71°C (no derating)
Storage Temperature	-40°C to +85°C
Cooling	Convection / Conduction
Relative Humidity	95% max.
Shock & Vibration	EN 50155 (EN 61373)
Environmental Protection	N/A

> Applicable Norms

Parameter	Detail
EMC	EN50155 (2007), EN50121-3-2 (2006)
Other	EN50155 (2007)

> Mechanical Characteristics

Parameter	Detail
Construction	Open frame PCB—Eurocard or Cold Wall mounting options
Dimensions (Length x Width x Height)	L = 160 mm W = 111 mm H = 20 mm
Weight	0.5kg
Connections	90° Fast-ons (on H11 Pitch). Option for Input / output cables
Fixings	Four ø M3 tapped holes in base strips.

Option	Detail	Code
Extended temperature range	-40°C to +71°C	T

Option	Detail	Code
Mounting plate	Drawing 753-901	M1
Connections	Input / output cables (halogen free cable)	O6

