



> 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
Input to Output	3.0kV dc								
Input to Case	1.5kV dc								
Output to Case	1.5kV dc								
Output to Output	0.5kV dc								





> Environmental Details

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

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

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

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.

