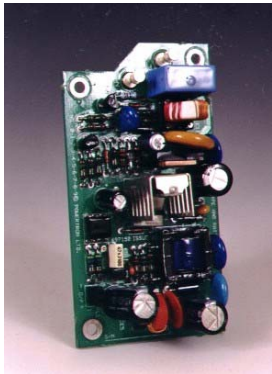




> Description



The SIL series is a range of low power (up to 5W) open frame converters, which incorporate full surge and transient protection to RIA12 and EN50155. They are single output units with nominal inputs from 24Vdc up to 110Vdc.

Special features include:

- Fully protected to rail norms
- Open frame construction
- Single Output
- Wide input range
- Low cost

> Input Specifications

The following input voltages versions are available as standard:

110V	(66.0 - 137.5V)	dc	(Suffix A)
72V	(43.2 - 90.0V)	dc	(Suffix D)
52V	(31.2 - 65.0V)	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**

Parameter	Detail
Input Ripple	To RIA 13 and EN50155
Input Protection	Reverse polarity protection. Surges and transients to RIA 12 & EN50155
Inrush Current	Limited to typically 5 x nominal current ( <i>after 0.1ms</i> )
Efficiency	85% typical
Hold up Time	10ms to EN51055 Class S2

> Output Specifications

Parameter	Detail						
Maximum Output Power	Up to 5W						
Output Versions	Single output only						
Output Voltage	Can be specified from 5V to 30V						
Setting Tolerance	±1.0% at 50% load, 15°C to 25°C						
Minimum Load	Zero						
Line Regulation	±1%						
Load Regulation	±1%						
Temperature Coefficient	<0.02% / °C						
Output Ripple	<1% Pk-Pk of Output Voltage						
Output Noise	<50mV Pk-Pk superimposed (up to 20MHz)						
Response Time	1.0mS to within 2% (for a 20% - 90% load change)						
Output Protection	Protected against indirect transients to RIA 12						
Primary Power Limit	Operates at approximately 120% of full power						
Isolation (tested at dc equivalent voltage)	<table border="0"> <tr> <td>Input to Output</td> <td>2.0kV ac</td> </tr> <tr> <td>Input to Earth</td> <td>1.0kV ac</td> </tr> <tr> <td>Output to Earth</td> <td>1.0kV ac</td> </tr> </table>	Input to Output	2.0kV ac	Input to Earth	1.0kV ac	Output to Earth	1.0kV ac
Input to Output	2.0kV ac						
Input to Earth	1.0kV ac						
Output to Earth	1.0kV ac						





> Environmental Details

Parameter	Detail
Operating Temperature	-25°C to +65°C (no derating)
Storage Temperature	-40°C to +85°C
Cooling	Convection
Relative Humidity	85% max.
Shock & Vibration	EN 50155 (EN 61373), RIA 20

> Applicable Norms

Parameter	Detail
EMC	RIA 12, 18; EN50155 (2007), EN50121-3-2 (2006)
Other	RIA 13, 18, 20; EN50155 (2007)

> Mechanical Characteristics

Parameter	Detail
Construction	Open frame PCB
Dimensions	Length = 93 mm Width = 50 mm Height = 35 mm
Weight	60g
Connections	PCB pins (turret lugs on topside of PCB)
Fixings	Four $\varnothing$ 3.4mm fixing holes on PCB

