

**120 Watt Rugged Encapsulated DC-DC Converter, SVi 8121 Series.**

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| <ul style="list-style-type: none"> <li>* Output Power To 120 Watts</li> <li>* Wide Input Ranges (9-130 VDC)</li> <li>* Short Circuit Protection</li> <li>* Output Remote Sense</li> <li>* High Efficiency</li> <li>* For Cold Wall Or Chassis Mounting With Screw Terminals</li> <li>* Over Temperature Protected</li> <li>* Standard Or Custom Versions</li> </ul> |
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**Standard Models (Other Input / Output Versions Are Available).**

DC Input Range	+/- 25 % From Nominal Value				
Input Voltage Order Code	2	4	5	6	7
Nominal DC Input	12V	24V	48V	60V	110V
Input To Output	Isolated				
Output Power Rating	Max. 120 Watts				
Output Voltage Order Code	1	2	3	4	
Output Voltage (Standard Models)	5V	12V	15V	24V	
Output Current	20A	10A	8A	5A	
Accuracy	Typ.1%				
Power Limit With 12 V Input	Max. 75 % Output Current				

**Specification**

(after warm-up time at 25 °C)

<b>Regulation</b>	
- Load Variation 10-90 %	Static Dynamic
	typ. 0.5% (max.1.0%) typ. 1.0% (max.2.0%)
- Input Voltage Variation +/- 10%	typ. 0.2% (max.0.5%)
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- Recovery Time To +/- 1%	typ. 0.5ms (max.1.0ms)
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<b>Efficiency At Full Load And Nominal Input</b>	
- typ. with 5V Output	typ. 79%
- typ. with 12 / 15V Output	typ. 84%
- typ. with 24V Output	typ. 85%
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<b>Ripple And Noise</b>	1% Vout NOM
Switching spikes	typ. 100mVpp
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<b>Conducted Interference At Input</b>	≤ 1% pp.max.
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<b>Ambient Temperatures</b>	
- Storage Temperature Range	-40 °C...+125 °C
- Operating Temperature Range	-40 °C...+125 °C
- Operating Temperature Range At Full Load (temperature at heat sink)	-40 °C...+125 °C
- Temperature Coefficient	0.05 % / °C
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- Humidity (not condensing)	100 % RH
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Switching Frequency	typ. 120 kHz
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Break Down Voltage Input / Output	1000 VDC / 1 min.

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# ALL PSU DATA SHEET.

## Cont .. 120 Watt Rugged Encapsulated DC-DC Converter, SVi 8121 Series.

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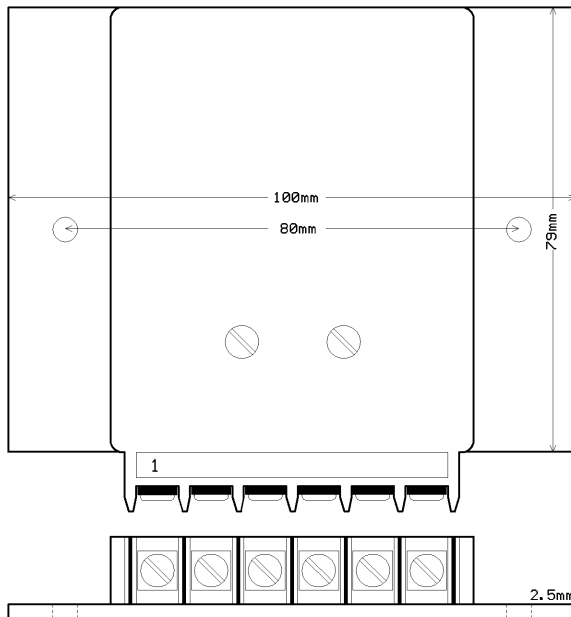
### Specifications

Isolated Resistance		100 M $\Omega$ min.
* Higher Isolation Options On Request		
Output Short Circuit Protected By Switch Off		ca. 120 % I <sub>nom</sub>
Connections	Standard	Screw Terminals
	Option	Faston Terminals

### Terminal Pin-Out

Positive Input DC	+ Vin =	1
Negative Input DC	- Vin =	2
Positive Output DC	+ Vout =	3
Negative Output DC	- Vout =	6
Positive Sense Line	+ S =	4
Negative Sense Line	- S =	5

### Mechanical Drawing



### Notes

If the sense lines are not used, they must be connected to corresponding output.

Other input /output voltages or special modules on request.

Dimensions: 100 x 90 x 18mm

Weight: 200g

Part Number Example

SVi 8121 - 5 - 3

SVi 8121 Series Isolated Converter  
Input Voltage Nominally 48 VDC  
Output Voltage 15 VDC

Specifications May Change Without Notice, E&OE.

*Other Models In This Series Are Available At 40 Or 90 Watts,  
Or Non Isolated Versions To 600 Watts.*

*Our Full Range Of DC-DC Converters Can Be Seen At [www.allpsu.co.uk](http://www.allpsu.co.uk)*

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