

ALL PSU DATA SHEET.

90 Watt Rugged Encapsulated DC-DC Converter, SVi Series

- * Output Power To 90 Watts
- * Wide Input Range
- * Short Circuit Protection
- * Remote Sense
- * High Efficiency
- * For Wall / Chassis Mounting
- * Ideal For Fixed Or Mobile Applications



Standard Models (Other Input / Output Versions Are Available)

Input Range	Typically +/- 25 %				
Input Voltage Order Code	2	4	5	6	7
DC Input	12V	24V	48V	60V	110V
Input / Output	Isolated				
Output Power Rating	Max. 90 W				
Output Voltage Order Code	1	2	3	4	
Output Voltage	5V	12V	15V	24V	
Output Current	16A	7,5A	6A	4A	
Accuracy	Typ.1%				
Power @ 12 V Input	Max. 75 % Output Current				

- Specification

(after warm-up time at 25 °C)

<ul style="list-style-type: none"> - Regulation - Load Variation 10-90 % static <li style="padding-left: 150px;">dynamic - Input Voltage Variation +/- 10% 	<ul style="list-style-type: none"> typ.0,5%(max.1,0%) typ.1,0%(max.2,0%) typ.0,2%(max.0,5%)
<ul style="list-style-type: none"> - Recovery Time To +/- 1% 	<ul style="list-style-type: none"> typ.0,5ms(max.1,0ms)
<ul style="list-style-type: none"> - Efficiency @ Full Load And Nominal Input 	<ul style="list-style-type: none"> - typ. with 5V Output typ. 79% - typ. with 12/15V Output typ. 84% - typ. with 24V Output typ. 85%
<ul style="list-style-type: none"> - Ripple And Noise - Switching Spikes 	<ul style="list-style-type: none"> 1% Vout NOM typ. 100mVpp
<ul style="list-style-type: none"> - Conducted Interference At Input 	<ul style="list-style-type: none"> ≤ 1% pp.max.
<ul style="list-style-type: none"> Ambient temperatures - Storage Temperature Range - Operating Temperature Range - Operating Temperature Range At Full Load (temperature at heat sink) - Temperature Coefficient 	<ul style="list-style-type: none"> -40 °C...+125 °C -40 °C...+125 °C -40 °C...+125 °C 0,05 % / °C
<ul style="list-style-type: none"> - Humidity (not condensing) 	<ul style="list-style-type: none"> 100 % RH
<ul style="list-style-type: none"> - Switching Frequency 	<ul style="list-style-type: none"> typ. 120 kHz

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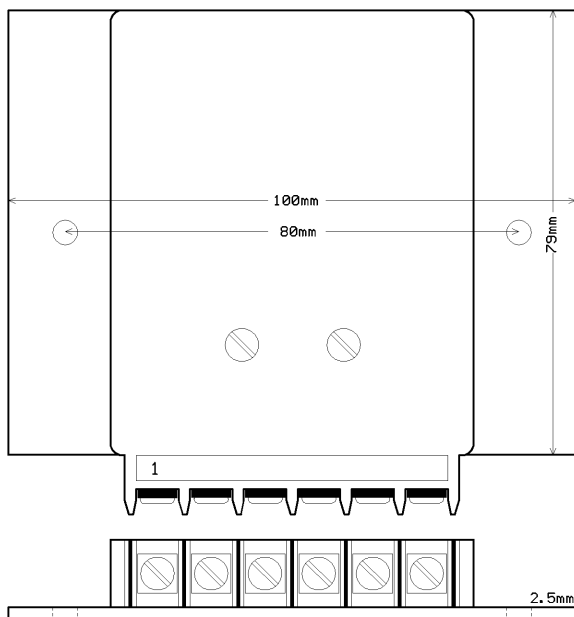
Cont 90 Watt Rugged Encapsulated DC-DC Converter, SVi Series.

- Break Down Voltage Input / Output	1000 VDC / 1 min.
- Isolated resistance	100 MΩ min.
- Output Short Circuit Protection	By Switch Off
- Over Load Constant Current	ca. 120 % I _{nom}
- Connections	Screw Terminals

Terminal Connections

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

Mechanical drawing



Notes

If The Sense Lines Are Not Used At Load, They Must Be Connected To Corresponding Output Connection.

Other input/output voltages or special modules on request.

Dimensions: 100x90x18mm
Weight: 200g

Part Number Order Example

SVi891 - 5 3

SVi891 Series
Input Voltage (48VDC)
Output Voltage (15VDC)

Specifications May Change Without Notice, E&OE.

*Other Models In This Series Are Available At 40 Or 120 Watts,
Or Non Isolated Versions To 600 Watts.*

Our Full Range Of DC-DC Converters Are Listed at www.allpsu.co.uk

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