



SF101P2R Series

100 Watt AC - DC Open Frame Power Supply
UL, EN, IEC 60950-1 2nd Edition, RoHS 2 Compliant

Date: 10/12/18

Rev: 080118

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The SF101P2R Series open frame switch mode power supply has 100 Watts convection cooled output in an *ultra-compact 2" x 4" inch* size. Output voltages range from 11 Vdc - 55 Vdc, with UL/CUL, EN and IEC 60950-1 2nd Edition safety approvals.

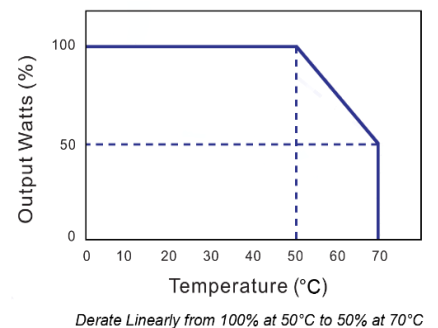


Input Voltage	90 to 260 Vac
Input Frequency	47 to 63 Hz
Input Current (Low Line)	1.4 A Typ. at 100 Vac
Input Current (High Line)	0.58 A Typ. at 240 Vac
Power Factor Correction	0.95 – 1.0
Safety Ground Leakage Current	0.75 mA Max. at 240 Vac, Full Load
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P)	See Table on Page 2
Over-Voltage Protection	112 - 132%, Crowbar Protected
Over-Current Protection	110 - 150%
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	50% Load Change at 100 Vac Input: 4 ms Max.
Efficiency	87 - 89% Typ.
No Load Power Consumption	≤ 0.5 Watts Typ.
Line Regulation	± 1% Max. at Full Load
Load Regulation	± 3% Max.
Start-Up Time	1 s
Hold-Up Time	16 ms Min.
Withstanding Voltage	Primary to Secondary: 4,242 Vdc Primary to Ground: 2,121 Vdc
Inrush Current	50 A Max. @ 100 Vac, 25 °C Cold Start 120 A Max. @ 240 Vac, 25 °C Cold Start
Mean Time Between Failure	100,000 Hrs. Min. (Full Load at 25°C, MIL-HDBK-217F)
Operating Temperature	0 to 70°C (See Derating Curve)
Storage Temperature	-40 to 85°C
Weight	180 – 250 g (Ref.)
Industry Compliance	Directive 2011/65/EU (RoHS 2)
EMI Requirements	Meets Conduction and Radiation Limits of: CISPR-32 Class B, EN 55032 Class B, and FCC Part 15 Class B
Safety Compliance	UR/cUR (UL 60950-1:2 nd Ed.), CE (EN 60950-1:2006/A2:2013), CB (IEC 60950-1:2005/A2:2013), FCC

Features:

- 100 Watts Convection Cooled
- Universal Input 100 - 240 Vac
- Over-Voltage, Over-Current, and Short Circuit Protection
- Internal EMI Filter
- Input Surge Protection
- Class I
- Active Power Factor Correction
- 100% Burn-In
- RoHS 2 Compliant

Derating Curve





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Output Voltage and Current Table

Model Number	Output Voltage Range	Output Current Limited to Output Power ¹	Ripple & Noise (mV P-P) ²	Output Power
SF101P2R1__R	11 – 13 Vdc	7.69 – 9.09 A	100	100 W
SF101P2R1__R	14 – 16 Vdc	6.25 – 7.14 A	120	100 W
SF101P2R1__R	17 – 21 Vdc	4.76 – 5.88 A	150	100 W
SF101P2R1__R	22 – 27 Vdc	3.70 – 4.55 A	150	100 W
SF101P2R1__R	28 – 33 Vdc	3.03 – 3.57 A	200	100 W
SF101P2R1__R	34 – 40 Vdc	2.50 – 2.94 A	200	100 W
SF101P2R1__R	41 – 48 Vdc	2.08 – 2.44 A	200	100 W
SF101P2R1__R	50 – 55 Vdc	1.82 – 2.00 A	200	100 W

Notes:

1. To find Output Current:

Output Current = Max Power ÷ Output Voltage

Example: Output Current for SF101P2R124R (24 Vdc Output)

Output Current = 100 W ÷ 24 V

Output Current = 4.17 A

2. Measured w/ 0.1 µF ceramic capacitor & 47 µF electrolytic capacitor in parallel and a 20 MHz Bandwidth-limited scope.

SF101P2R1□□R



Output Voltage: See Table



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• Specification subject to
change without notice



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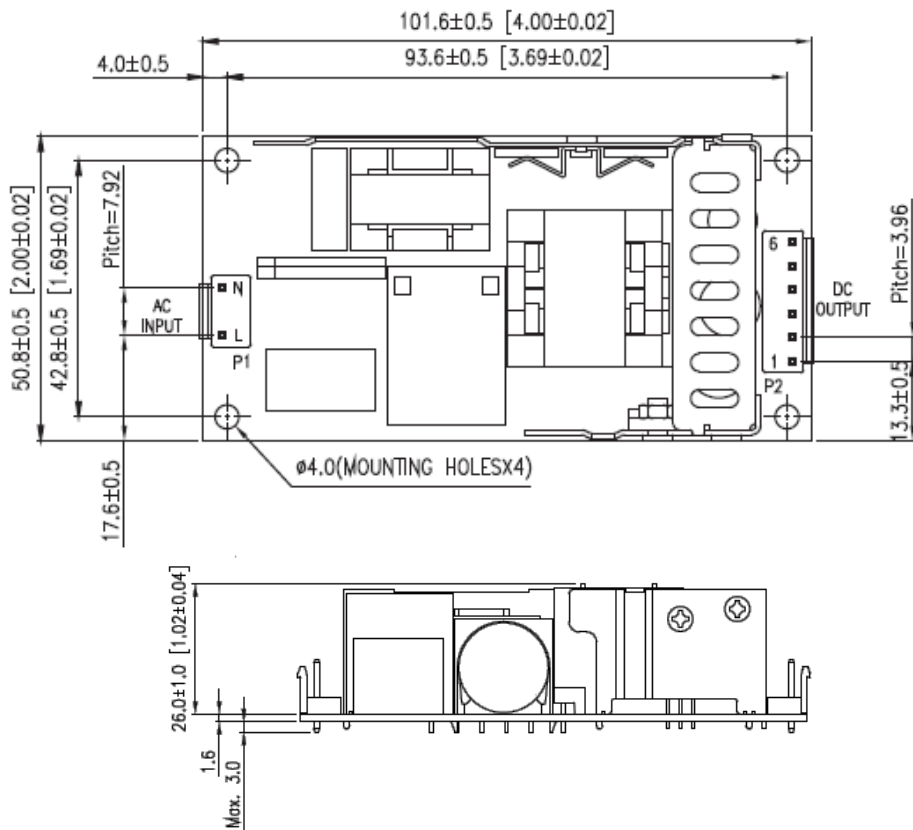
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Mechanical Specification (mm, [in])

DC OUTPUT



Pin Connection SF101P2R1__R	6-Pin Header	
Pin	1 - 3	4 - 6
Output	+V	Return



- Input Connector Mating:
 - JST Housing VHR-3N and JST SVH series crimp terminal

- Output Connector Mating:
 - JST Housing VHR-6N and JST SVH series crimp terminal