



# SFU301P Series

300 Watt AC - DC Open Frame Power Supply  
UL, EN, IEC 60950-1 2<sup>nd</sup> Edition, RoHS 2 Compliant

Date: 10/17/18

Rev: 080118

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The SFU301P Series open frame switch mode power supply offers 300 Watts output power (convection cooled) with an output voltage 24 Vdc. PCB size is 4.18" x 6.4" with U-Bracket. Safety approvals include UL/CUL, IEC, and EN 60950-1, 2<sup>nd</sup> Edition.

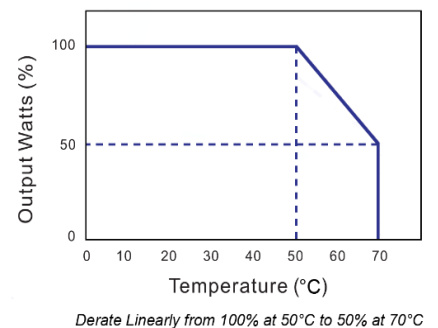


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current (Low Line)	3.9 A Max. at 100 Vac
Input Current (High Line)	1.6 A Max. at 240 Vac
Power Factor Correction	0.95 – 1.0
Safety Ground Leakage Current	0.75 mA Max. at 240 Vac, Full Load
Output Voltage & Current	See Table on Page 2
Over-Voltage 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	90% Typ.
No Load Power Consumption	≤ 3 Watts
Line Regulation	± 1% Max. at Full Load
Load Regulation	± 5% Max.
Start-Up Time	3 s
Hold-Up Time	20 ms Min.
Withstanding Voltage	Primary to Secondary: 4,242 Vdc Primary to Ground: 2,121 Vdc
Inrush Current	45 A Max. @ 100 Vac, 25 °C Cold Start 108 A Max. @ 240 Vac, 25 °C Cold Start
Mean Time Between Failure	100,000 Hrs. Min. (MIL-HDBK-217F, Full Load at 25°C)
Operating Temperature	See Derating Curve
Storage Temperature	-40 to 85°C
Industry Compliance	Directive 2011/65/EU (RoHS 2)
Weight	790 g Typ.
EMI Requirements	Meets Conduction Limits of: FCC Part 15 Class B, CISPR-32 Class B, EN 55032 Class B
Safety Compliance	UR/cUR (UL 60950-1:2nd Ed.), TUV (EN 60950-1:2006/A2:2013), CE, CB (IEC 60950-1:2005/A2:2013)

## Features:

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

## Derating Curve





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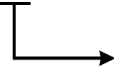
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## Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Ripple & Noise (mV P-P) <sup>1</sup>	Output Power
SFU301P124_R	24 Vdc	12.5 A	150	300 W

SFU301P124□R



Output Connector: B4 = 4-position screw terminal  
B6 = 6-position screw terminal

### Notes:

1. Measured w/ 0.1  $\mu$ F ceramic capacitor & 47  $\mu$ F electrolytic capacitor in parallel and a 20 MHz Bandwidth-limited scope.



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• Specification subject to  
change without notice



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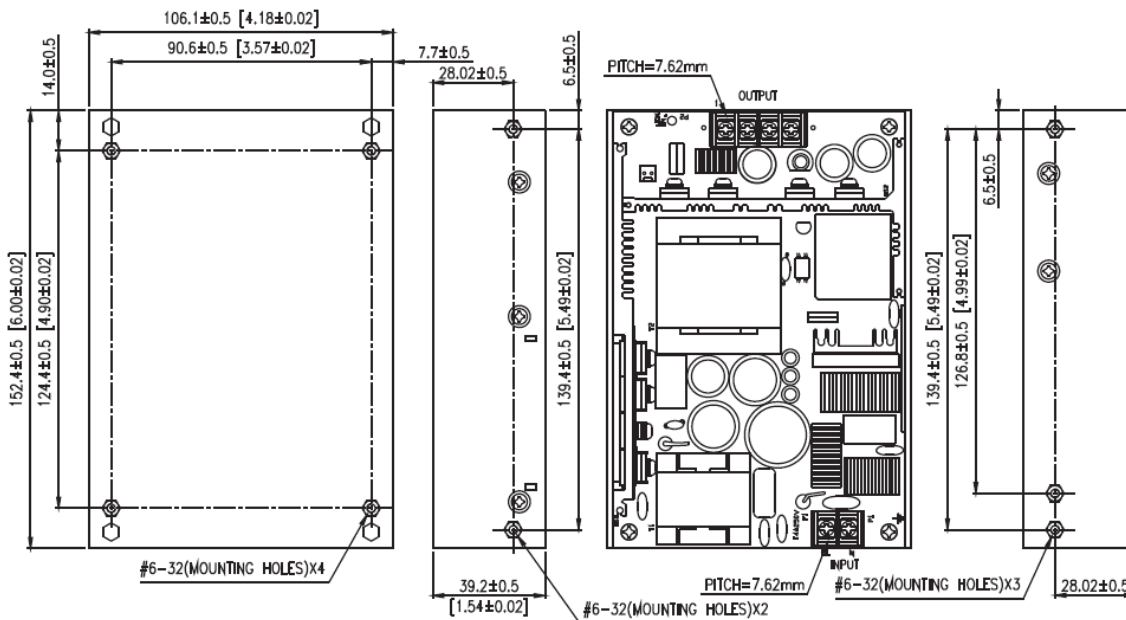
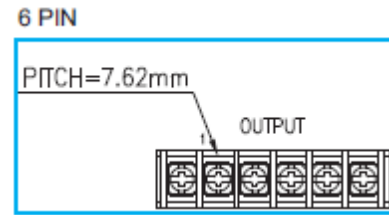
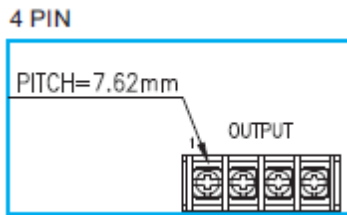
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## Mechanical Specification (mm, [in])

Pin Connection	4-Position Screw Terminal	
SFU301P124B4R		
Pin	1 - 2	3 - 4
Output	Return	+V

Pin Connection	6-Position Screw Terminal	
SFU301P124B6R		
Pin	1 - 3	4 - 6
Output	Return	+V



- Input Connector Mating:
  - Mates with DINKLE#DT-2GN-B01W-02P and DINKLE#ESK750V-02P

- Output Connector Mating:
  - Mates with DINKLE#DT-2GN-B01W-(04P or 06P) and DINKLE#ESK750V-(04P or 06P).