



SP08P - SP10P Series

8 - 10 Watt AC - DC Wall Plug-In Power Supply
Energy Efficiency Level VI, RoHS 2 Compliant

Date: 10/26/18

Rev: 070118

Page: 1 of 3

The SP08P - SP10P Series switch mode power supply offers 8 - 10 Watts output power, with an output voltage range of 5 Vdc - 48 Vdc. Case style is a wall plug-in with US style prongs, along with UL/cUL, EN and IEC 60950-1 2nd Edition safety approvals, and Energy Efficiency Level 6.

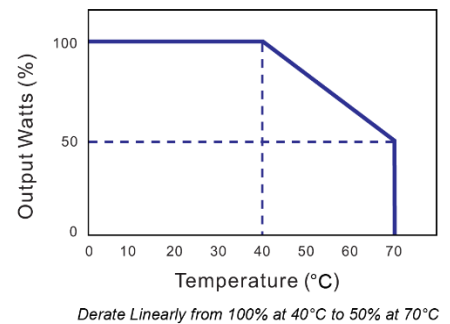


Input Voltage	90 to 260 Vac
Input Frequency	47 to 63 Hz
Input Current (Low Line)	0.3 A Typ. at 100 Vac
Input Current (High Line)	0.12 A Typ. at 240 Vac
Safety Ground Leakage Current	0.25 mA Max. at 240 Vac, Full Load
Output Voltage & Current	See Table on Page 2
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	50% Load Change at 110 Vac Input: 4 ms Typ.
Efficiency	77.2 – 85.0%
No Load Power Consumption	< 0.1 Watts
Line Regulation	± 1% Max. at Full Load
Load Regulation	± 5% Max.
Start-Up Time	3 s
Hold-Up Time	10 ms Min.
Withstanding Voltage	Primary to Secondary: 4,242 Vdc
Inrush Current	35 A Max. @ 100 Vac at 25°C Cold Start 84 A Max. @ 240 Vac at 25°C Cold Start
Mean Time Between Failure	Full Load at 25°C Ambient: 100,000 Hours Min.
Operating Temperature	See Derating Curve
Storage Temperature	-40 to 85 °C
Weight	90 g Typ.
Industry Compliance	Directive 2011/65/EU (RoHS 2), DoE VI
EMI Requirements	Meets Conduction and Radiation Limits of: FCC Part 15 Class B, CISPR-32 Class B, and EN 55032 Class B
Safety Compliance	UL/cUL (UL 60950-1:2nd Ed.), FCC, PSE

Features:

- Universal Input 100 - 240 VAC
- US style prongs
- Single Output
- 100% Burn-In
- Convection Cooled
- RoHS 2 Compliant
- DoE Level VI
- Class II System

Derating Curve





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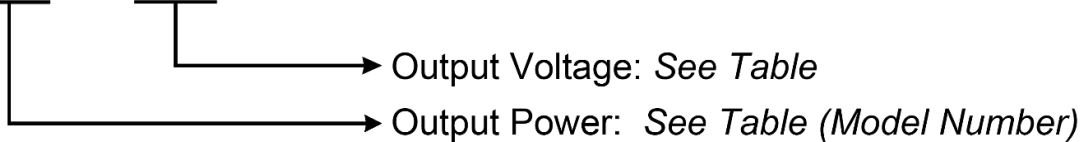
Rev: 070118

Page: 2 of 3

Output Voltage and Current Table

Model Number	Output Voltage	Output Current <i>Limited to Output Power</i> ¹	Ripple & Noise (mV P-P) ²	Output Power
SP08PU__R	5.0 – 5.99 Vdc	1.33 – 1.60 A	60	8 Watts
SP08PU__R	6.5 – 8.0 Vdc	1.00 – 1.23 A	80	8 Watts
SP10PU__R	8.0 – 11.0 Vdc	0.91 – 1.25 A	110	10 Watts
SP10PU__R	12.0 – 13.0 Vdc	0.77 – 0.83 A	130	10 Watts
SP10PU__R	14.0 – 16.0 Vdc	0.63 – 0.71 A	150	10 Watts
SP10PU__R	17.0 – 21.0 Vdc	0.48 – 0.59 A	150	10 Watts
SP10PU__R	22.0 – 27.0 Vdc	0.37 – 0.45 A	200	10 Watts
SP10PU__R	28.0 – 33.0 Vdc	0.30 – 0.36 A	200	10 Watts
SP10PU__R	34.0 – 40.0 Vdc	0.25 – 0.29 A	200	10 Watts
SP10PU__R	41.0 – 48.0 Vdc	0.21 – 0.24 A	200	10 Watts

SP□□PU□□R



Notes:

1. To find Output Current:

Output Current = Max Power ÷ Output Voltage

Example: Output Current for SP10PU24R (24 Vdc Output, 10 Watts)

Output Current = 10 W ÷ 24 V

Output Current = 0.417 A

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



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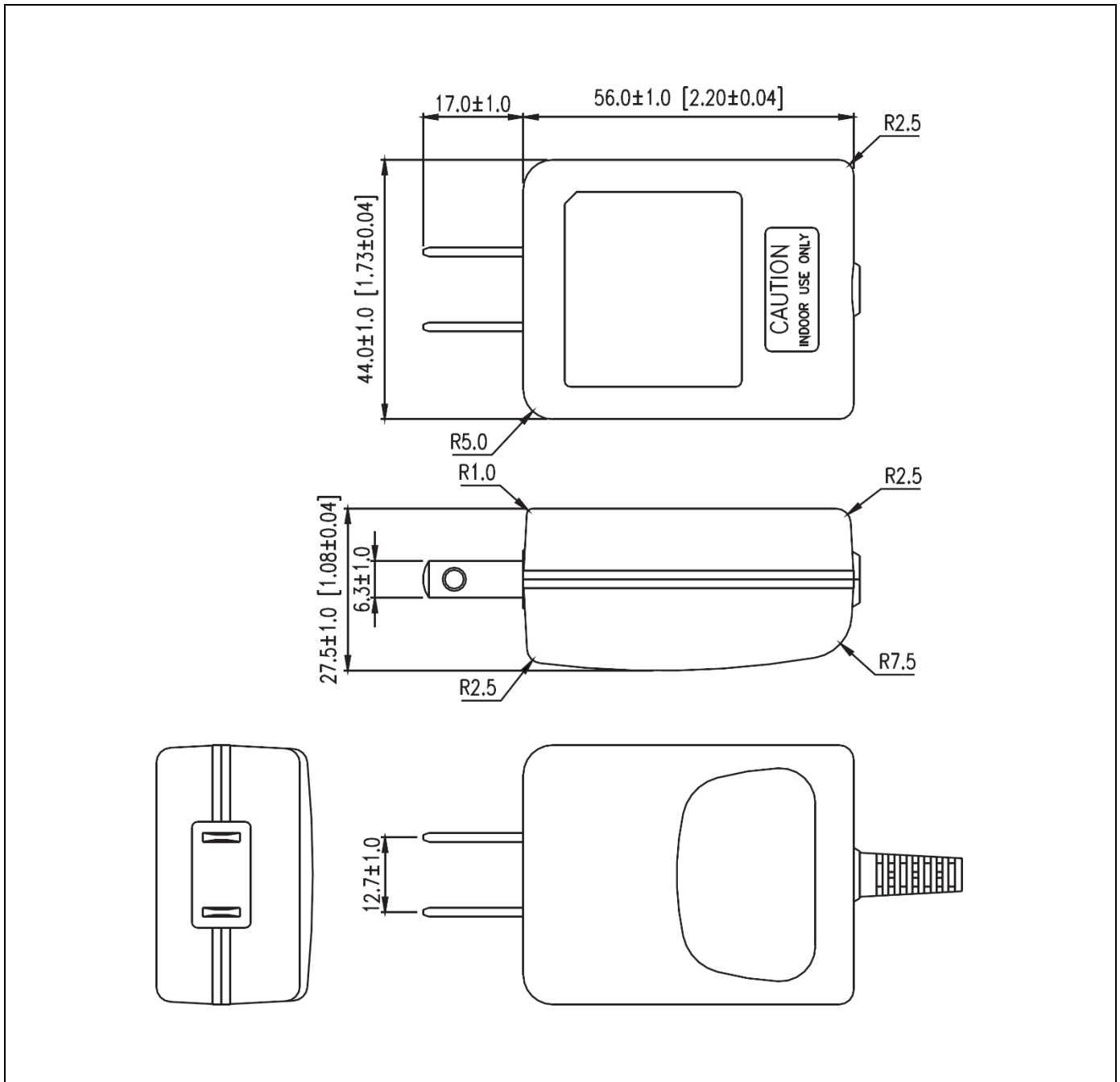
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Page: 3 of 3

Mechanical Specification (mm, [in])



Note: Output connector to be specified by customer.
APX will be happy to recommend the appropriate connector for your application needs.
The cable length and wire gauge will be dependent on the Energy Efficiency level requirements.



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