



SP151P Series

150 Watt AC - DC Desktop Power Supply
UL/EN/IEC 62368-1, DoE VI, RoHS 2 Compliant

Date: 11/7/18

Rev: 011018

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The SP151P Series switch mode power supply offers 150 Watts output power, with an output voltage range of 12 Vdc - 48 Vdc. Case style is a desktop with C14 or C8 input options, along with UL/cUL, EN and IEC 62368-1 2nd Edition safety approvals, and DoE Level 6 efficiency.

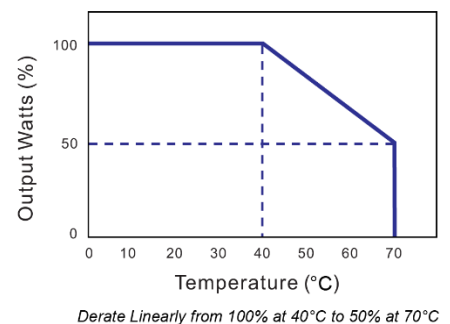


Input Voltage	90 to 260 Vac
Input Frequency	47 to 63 Hz
Input Current (Low Line)	2.0 A Typ. at 100 Vac
Input Current (High Line)	0.8 A Typ. at 240 Vac
Safety Ground Leakage Current	C14 Model: 0.75 mA Max. at 240 Vac, Full Load
Output Voltage & Current	See Table on Page 2
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	50% Load Change at 110 Vac Input: 4 ms Typ.
Efficiency	88 – 91% Typ.
No Load Power Consumption	< 0.21 Watts
Line Regulation	± 1% Max. at Full Load
Load Regulation	± 5% Max.
Start-Up Time	2 s
Hold-Up Time	16 ms Min.
Withstanding Voltage	Primary to Secondary: 4,242 Vdc (limit current <10 mA) C14 Model: Primary to Ground: 2,121 Vdc (limit current <10 mA)
Inrush Current	60 A Max. @ 100 Vac at 25°C Cold Start 120 A Max. @ 240 Vac at 25°C Cold Start
Mean Time Between Failure	100,000 Hours Min. (Full Load at 25°C, MIL-HDBK-217F)
Operating Temperature	See Derating Curve
Storage Temperature	-40 to 85°C
Weight	720 - 750 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 62368-1:2nd Ed., CSA C22.2 No.62368-1-1), CE (EN 62368-1:2014/A11:2017), CB (IEC 62368-1:2014), PSE, FCC

Features:

- Universal Input 100 - 240 VAC
- C14/C8 Input Plug
- Single Output
- 100% Burn-In
- Convection Cooled
- RoHS 2 Compliant
- DoE Level VI
- Class I System (C14 Input)
- Class II System (C8 Input)

Derating Curve





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Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Ripple & Noise (mV P-P) ¹	Output Power
SP151P_12R	12 Vdc	12.5 A	120	150 Watts
SP151P_15R	15 Vdc	10.0 A	150	150 Watts
SP151P_19R	19 Vdc	7.89 A	190	150 Watts
SP151P_24R	24 Vdc	6.25 A	240	150 Watts
SP151P_30R	30 Vdc	5.00 A	300	150 Watts
SP151P_36R	36 Vdc	4.16 A	300	150 Watts
SP151P_48R	48 Vdc	3.12 A	300	150 Watts

SP151P R

→ Output Voltage: *See Table*

→ Input Plug: 8 = C8 Socket
9 = C14 Socket

Notes:

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



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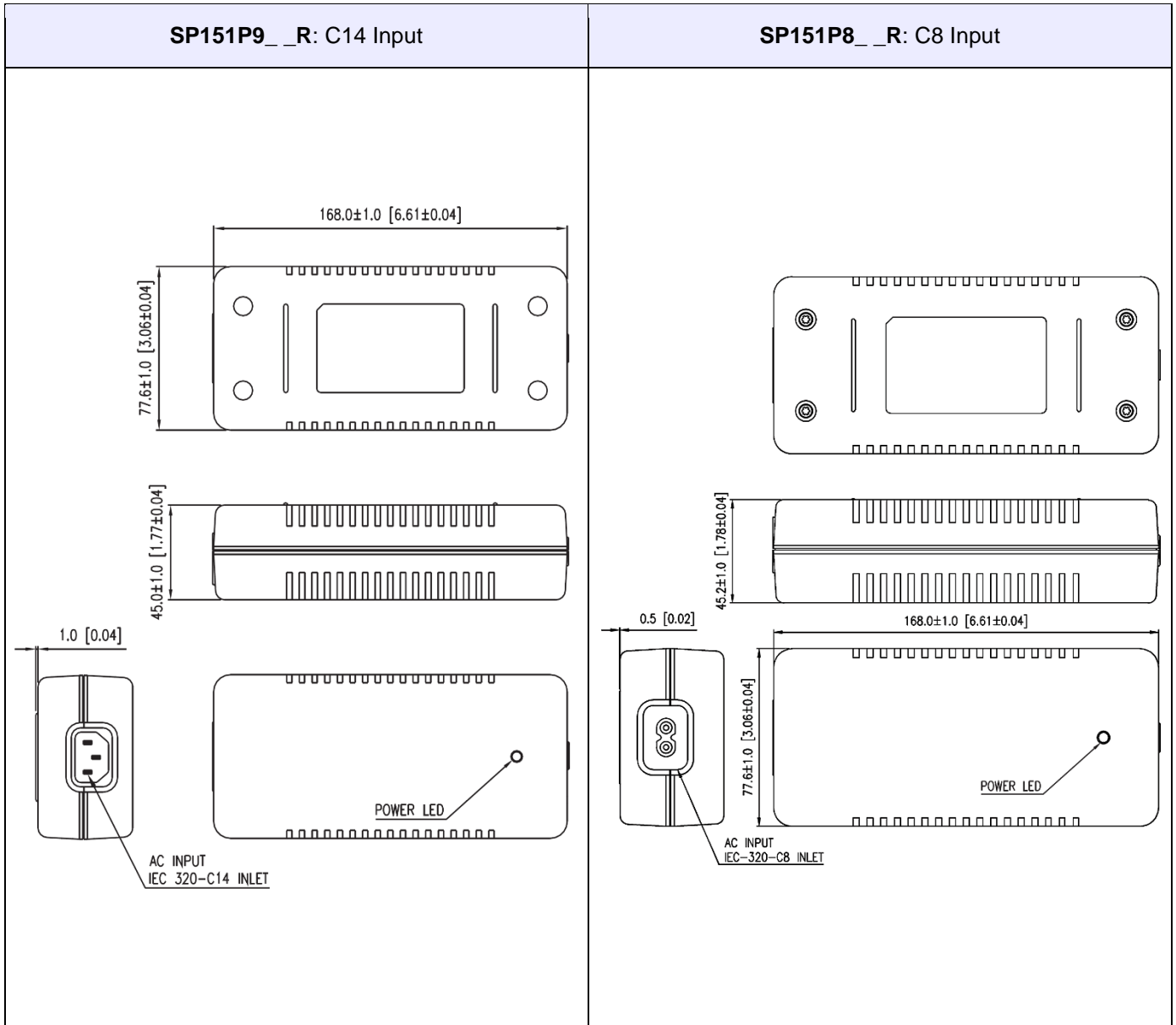
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Mechanical Specification (mm, [in])



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.