



Features:

- Universal Input 100 – 240 VAC
- 3 VDC to 48 VDC
- 12 to 15 Watts
- Over-Current Protection
- 100% Burn-In
- LED Indication
- C-14, C-8, C-6, or Fixed Input Cable Available
- RoHS Compliant
- CEC Efficiency Level: IV & V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	0.4A Max at 115VAC 0.26A Max at 230VAC
Power Consumption	0.3W Max. @ 240VAC, No Load
Safety Ground Leakage Current	0.75mA Max. @ 240VAC, Full Load

Output

Output Voltage & Current	See Chart
Ripple & Noise (P-P)	1% Max, Full Load @ 90VAC Input
Over-Current Protection	Output Protected to Short Circuit Conditions
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	Full Load to Half Load @ 100VAC Input: 4mS Max.

Environmental

Operating Temperature	0°C to 70°C
Derating	Derated from 100% at +40°C to 50% at +70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5% to 95% Non-Condensing
Mean Time Between Failure (MTBF)	100,000 Hours Min., Full Load at 25°C Ambient

Electrical

Efficiency	Meets CEC Level IV & V
Hold-Up Time	5mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±10% Max. at 230VAC
Inrush Current	15A @ 115VAC Max. 30A @ 230VAC Max. at 25°C Cold Start
Withstanding Voltage	4242 VDC from Input to Output, 2121 VDC from Input to Ground
Insulation Resistance	50 MΩ Min. from Output to Ground

Safety

EMI Requirements	Meets Conduction Limits of: (A) FCC Part-15 Class B (B) CISPR-22 Class B
Safety Standards	Meets or Exceeds: (A) UL /c-UL (UL 60950-1) (B) TUV/GS (EN 60950-1) (C) PSE (D) CB (E) CE (F) CCC (G) LPS (H) FCC (I) CEC Level IV (3V - 4V Output) (J) CEC Level V (5V - 48V Output)



SP16P Series

Desk-Top, Switchmode Power Supply
RoHS Compliant, CEC Efficiency Level IV & V

Date: 12/20/10

Rev: 121510

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Output Voltage and Current Chart

Model Number**	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SP16PYXXR	3 - 4 VDC	2.50 A Max.	7%	12W
SP16PYXXR	5 - 7 VDC	2.50 - 1.72 A	5%	12W
SP16PYXXR	8 - 11 VDC	1.87 - 1.36 A	5%	15W
SP16PYXXR	12 - 16 VDC	1.25 - 0.94 A	5%	15W
SP16PYXXR	17 - 21 VDC	0.88 - 0.72 A	5%	15W
SP16PYXXR	22 - 27 VDC	0.68 - 0.55 A	5%	15W
SP16PYXXR	28 - 33 VDC	0.54 - 0.45 A	5%	15W
SP16PYXXR	34 - 40 VDC	0.44 - 0.37 A	3%	15W
SP16PYXXR	41 - 48 VDC	0.36 - 0.31 A	3%	15W

** To Determine Part Number:

- Replace "Y" with Required Input Socket Style (9 = C-14, 8 = C-8, 6 = C-6, 5 = Fixed Input Plug)
- Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 48VDC = "48", etc.)
Example: SP16P924R indicates a 24VDC Unit with a C-14 Input Socket.

• Note: The following models are PSE approved:

- | | |
|--|--|
| SP16P <u>9</u> (C14 Input) (5V - 48V Output) | SP16P <u>5</u> (2-Prong Input Cable) (3V - 14V Output) |
| SP16P <u>8</u> (C8 Input) (3V - 14V Output) | SP16P <u>7</u> (3-Prong Input Cable) (5V - 48V Output) |
| SP16P <u>6</u> (C6 Input) (5V - 48V Output) | |

Note: Output Connector to be specified.

Standard Connector: 6 ft. cable w/ 2.5x5.5x11mm female barrel coaxial plug, center-hole positive (+).



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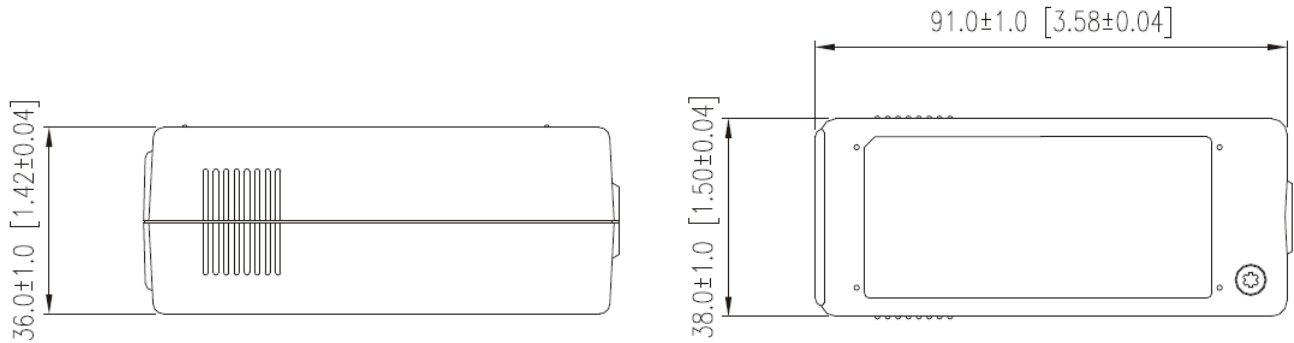
SP16P Series

Desk-Top, Switchmode Power Supply
RoHS Compliant, CEC Efficiency Level IV & V

Date: 12/20/10

Rev: 121510

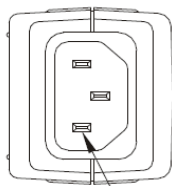
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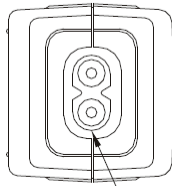
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Order as: SP16P8__R

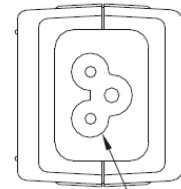
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AC INPUT
IEC 320 INLET

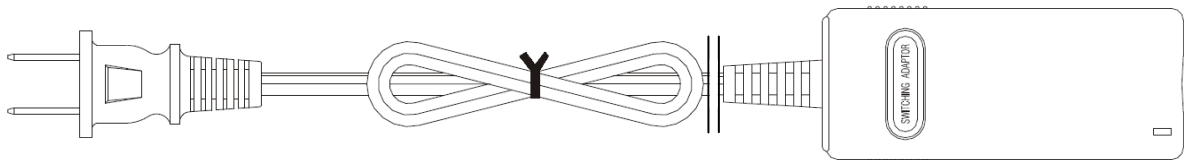


AC INPUT
IEC-320-C8 INLET

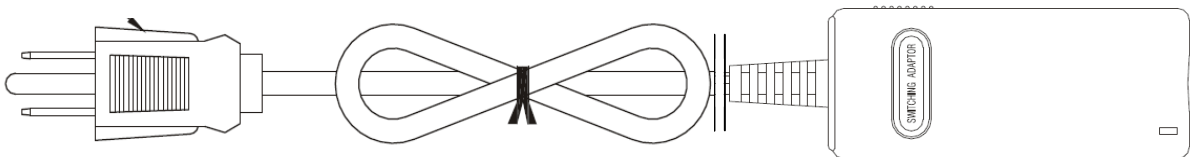


AC INPUT
IEC-320-C6 INLET

Order as: SP16P5__R



Order as: SP16P7__R



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