



SP80SW – SP120SW Series

80 - 120 Watt AC - DC Desk-Top Power Supply
Energy Efficiency Level VI, RoHS 2

Date: 6/18/18

Rev: 053118

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The SP80SW – SP120SW Series switch mode power supply offers 80 – 120 Watts output power, with an output voltage range of 10 Vdc - 48 Vdc. Case style is a desktop enclosure with a C6, C8, or C14 input socket, with UL/cUL, EN and IEC 60950-1 2nd Edition safety approvals, Energy Efficiency Level 6.



Input Voltage	90 to 260 Vac
Input Frequency	47 to 63 Hz
Power Factor	> 0.9
Input Current	2 A Max.
Safety Ground Leakage Current	0.25 mA Max. at 240 Vac, Full Load
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P)*	1-2%
Over-Current Protection	120 – 250%, Auto-recovery
Over-Voltage Protection	120 – 170%, Auto-recovery
Efficiency	Meets Energy Efficiency Level VI
No Load Power Consumption	Meets Energy Efficiency Level VI
Line Regulation	± 1% Max. at Full Load
Load Regulation	± 5% Max.
Start-Up Time	3 s Max. at 220 Vac, Full Load
Rise Time	40 ms Max. at 115 Vac, Full Load
Hold-Up Time	5 ms Min. at 115 Vac, Full Load
Withstanding Voltage	Primary to Secondary: 1,800 Vac
Inrush Current	120 A Max. @ 240 Vac at 25°C Cold Start
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 80 °C
Weight	260 g approximately
Industry Compliance	Directive 2011/65/EU and Energy Efficiency Level VI
EMI Requirements	Meets Conduction and Radiation Limits of: CISPR-32 Class B, FCC Part 15 Class B, EN 55032 Class B, GB9254, and GB17625.1
Safety Compliance	UL/c-UL (UL 60950-1:2nd Edition), TUV/GS (EN 60950-1:2nd Edition) CCC, CE, RCM

Features:

- Universal Input 100 - 240 VAC
- IEC 320 C6, C8 and C14 Available
- Over-Current Protection
- 100% Burn-In
- RoHS 2 Compliant
- LED Indicator
- Energy Efficiency Level: VI

Note:

1. Measured w/ 0.1 µF ceramic capacitor & 47 µF electrolytic capacitor in parallel and a 20 MHz bandwidth limited scope



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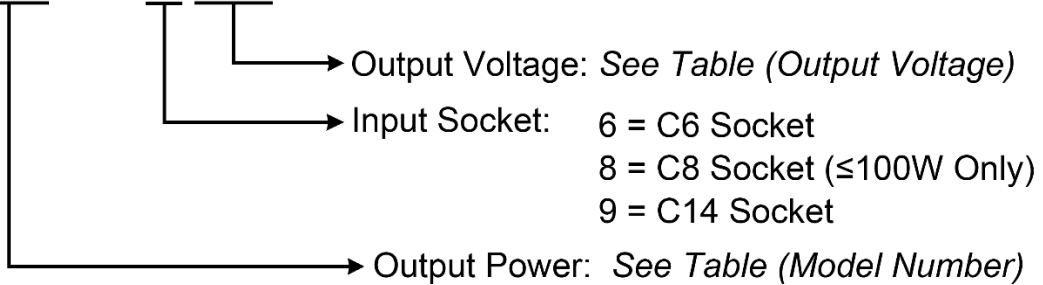
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Output Voltage and Current Table

Model Number	Output Voltage Range	Maximum Output Current <i>Limited to Output Power¹</i>	Maximum Output Power
SP80SW___R	10 – 48 Vdc	8.00 – 1.66 A	80 W
SP90SW___R	12 – 48 Vdc	7.50 – 1.87 A	90 W
SP100SW___R	13 – 48 Vdc	7.69 – 2.08 A	100 W
SP110SW___R	14 – 48 Vdc	7.85 – 2.29 A	110 W
SP120SW___R	15 – 48 Vdc	8.00 – 2.50 A	120 W

SP□□SW□□□R



Note:

1. To find Output Current:

Output Current = Output Power ÷ Output Voltage

Example: Output Current for 24 Vdc Output at 90 Watts

Output Current = 90 W ÷ 24 V

Output Current = 3.75 A



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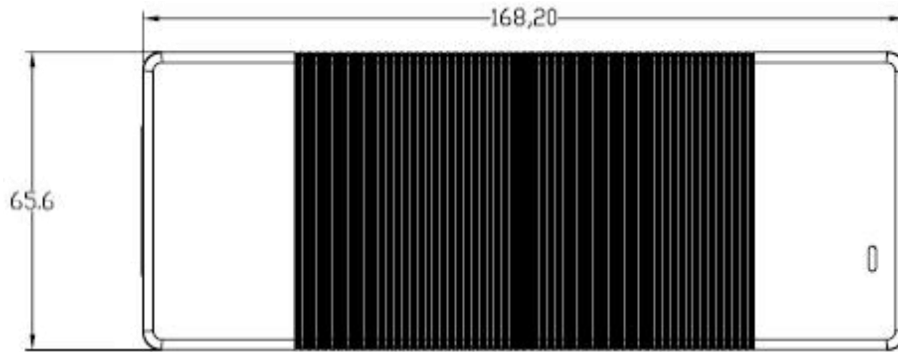
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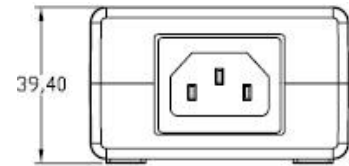
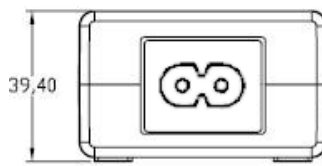
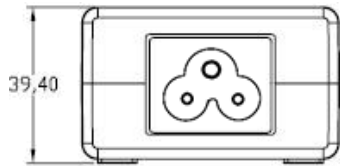
Mechanical Specification (mm)



SP__SW6: C6 Inlet

SP__SW8: C8 Inlet (≤100W Only)

SP__SW9: C14 Inlet



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.



TECHNOLOGIES INC.
HICKSVILLE, NEW YORK

264 Duffy Avenue
Hicksville, NY 11801

Tel: (516) 433-1313
Fax: (516) 433-1457

Web: www.apxonline.com
Email: sales@apxonline.com

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