



Features:

- Over-Voltage Protection
- Short Circuit Protection
- Over-Current Protection
- 100% Burn-In
- 100% Hi-Pot Tested
- LED Indication
- RoHS Compliant
- CEC Efficiency Level: V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.2A Max. @ 115 VAC 0.6A Max. @ 230 VAC
Safety Ground Leakage Current	0.75mA Max. @ 240 VAC, Full Load
Inrush Current	50A @ 115 VAC Max. 110A @ 230 VAC Max. at 25°C Cold Start

Output

Output Voltage & Current	See Chart
Ripple & Noise (P-P)	See Chart
Over-Voltage Protection	Auto-Recovery
Over-Current Protection	Protected to Short Circuit Conditions with Auto-Recovery
Temperature Coefficient	± 0.04% / °C Max.

Environmental

Operating Temperature	0°C to 40°C
Derating	Derated from 100% at +40°C to 50% at +70°C
Storage Temperature	-20°C to 85°C
Relative Humidity	5% to 90% Non-Condensing

Electrical

Efficiency	Meets CEC Level V Criteria
No Load Power Consumption	≤ 0.3 Watts (For Models < 50 Watts) ≤ 0.5 Watts (For Models ≥ 50 Watts)
Hold-Up Time	8.3mS Min.
Line Regulation	± 1% Max. at Full Load
Load Regulation	± 5% Max.
Withstanding Voltage	4242 VDC from Input to Output
Insulation Resistance	100 MΩ Min. from Output to Ground
Mean Time Between Failure (MTBF)	100,000 Hours Min., Full Load at 25°C Ambient

Safety

EMI Requirements	Meets Conduction Limits of: (A) FCC Part-15 Class B (B) CISPR-22 Class B (C) EN 55022 Class B
Safety Standards	Meets or Exceeds: (A) UL/C-UL (G) TUV/GS (B) FCC (H) Gost-R (C) CE (I) CCC (D) CB (J) DoIR+C-Tick (E) PSE (≥ 42 Watts Only) (F) UL Energy Verified (Inquire for Models)



SP30D9 – SP60D9 Series

Desk-Top, Switch Mode Power Supply
RoHS Compliant, CEC Efficiency Level: V

Date: 5/8/12
Rev: 050812
Page: 2 of 2

Output Voltage and Current Chart

Model Number**	Output Voltage†	Maximum Output Current	Maximum Output Power	Ripple & Noise
SP30D9XXR	12 - 17 VDC	2.5 A	30 Watts	250 mV
SP36D9XXR	12 - 17 VDC	3.0 A	36 Watts	250 mV
SP42D9XXR	12 - 17 VDC	3.5 A	42 Watts	250 mV
SP50D9XXR	12 - 17 VDC	4.2 A	50 Watts	250 mV
SP50D9XXR	18 - 24 VDC	2.8 A	50 Watts	350 mV
SP60D9XXR	12 - 17 VDC	5.0 A	60 Watts	250 mV
SP60D9XXR	18 - 24 VDC	3.3 A	60 Watts	350 mV

** To Determine Part Number:

- Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 24VDC = "24", ect.)

Example: SP30D924R indicates a 20-watt, 24VDC Unit.

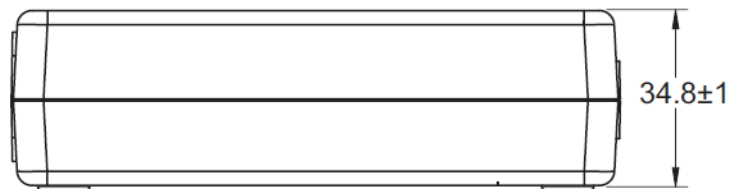
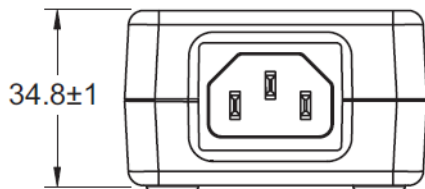
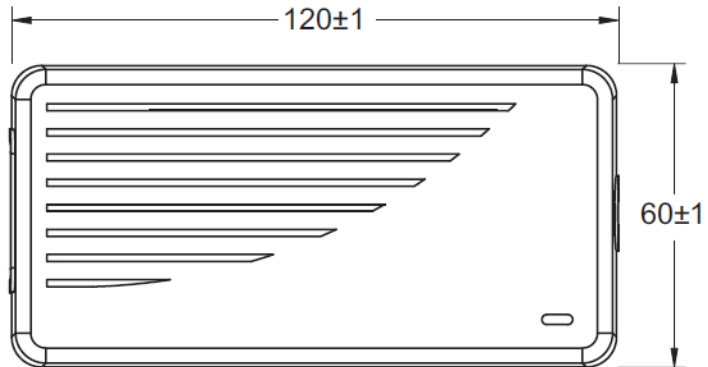
† Output Voltages between stated values are also available.

Note:

Output connector to be specified

Standard Connector is a 2.5 x 5.5 x 11mm Female Barrel Plug, Center Positive (+)

The cable length and wire gauge will be dependent on the Energy Efficiency requirements for each level



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

© Copyright 1978
APX Technologies, Inc.