



Features:

- Universal Input 100 – 240 VAC
- IEC320-C14 Input Socket
- Power Factor Correction
- Over-Current Protection
- Over-Voltage Protection
- 100% Burn-In
- LED Indication
- Optional On/Off Switch
- CEC Efficiency Level: V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.32A Max. at 115VAC, 0.66A Max. at 230VAC, Full Load
Power Factor Correction	1.0 Max., Full 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-Voltage Protection	Set at 112 - 132% of Nominal Output Voltage
Over-Current Protection	Set at 110 - 150% of Nominal Output Current
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

Electrical

Efficiency	88% Typical
Hold-Up Time	16mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max. at 230VAC
Inrush Current	30A @ 115VAC Max. 50A @ 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
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
Safety Standards	Meets or Exceeds: (A) UL/ c-UL (B) TUV/GS (C) CE (D) CB (E) FCC (F) TUV/PSE (G) CCC (12V - 13V and 21V - 17V Only) (H) CEC Level V



SP131P Series

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

Date: 2/3/10

Rev: 010810

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Output Voltage and Current Chart

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SP131P9XXR	12 - 13 VDC	10.84 - 10.00 A	5%	130W
SP131P9XXR	14 - 16 VDC	9.26 - 8.12 A	5%	130W
SP131P9XXR	17 - 21 VDC	7.65 - 6.19 A	5%	130W
SP131P9XXR	22 - 27 VDC	5.91 - 4.81 A	3%	130W
SP131P9XXR	28 - 33 VDC	4.64 - 3.93 A	3%	130W
SP131P9XXR	34 - 40 VDC	3.82 - 3.25 A	3%	130W
SP131P9XXR	41 - 50 VDC	3.17 - 2.60 A	3%	130W
SP131P9XXR	51 - 55 VDC	2.55 - 2.36 A	3%	130W

** To Determine Part Number:

Replace "XX" with Required Output Voltage (12VDC = "12", 24VDC = "24", 48VDC = "48", ect.)

Example: SP131P924R indicates a 24VDC Unit.

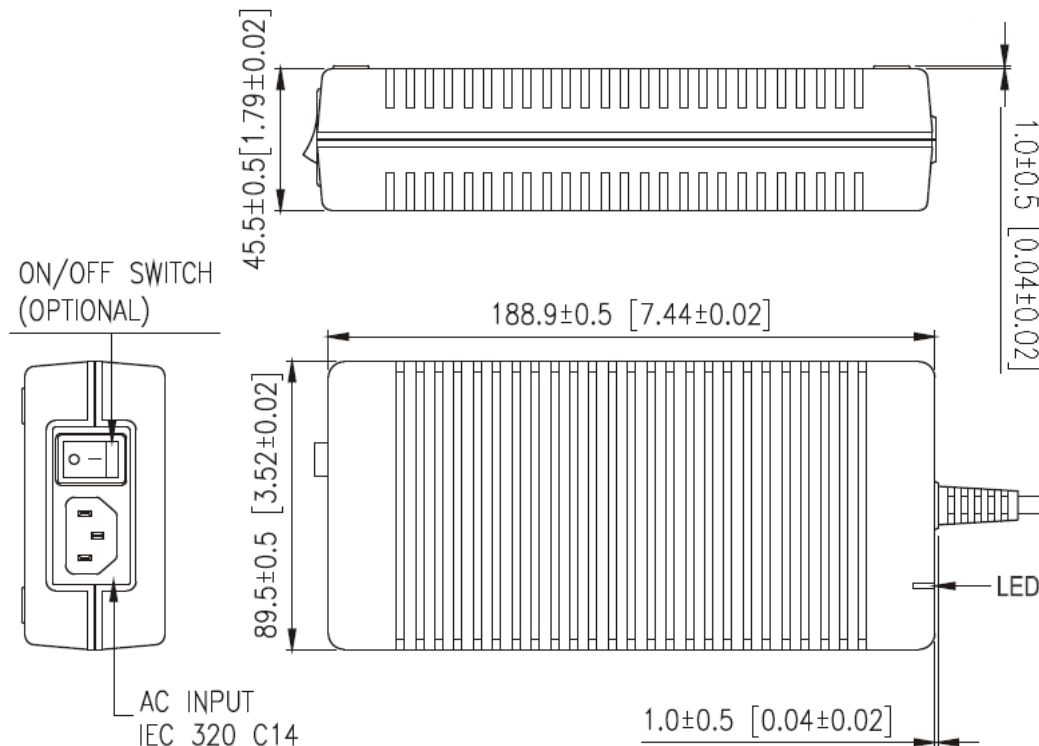
Note: Output Connector to be specified.

For 12V - 15V Output: A 4 ft. (16AWGx5C) cable is required to meet CEC Efficiency Level V.

For 16V - 20V Output: A 4 ft. (16AWGx4C) cable is required to meet CEC Efficiency Level V.

For 21V - 39V Output: A 4 ft. (16AWGx2C) cable is required to meet CEC Efficiency Level V.

For 40V - 55V Output: A 4 ft. (18AWGx2C) cable is required to meet CEC Efficiency Level V.



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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