



Features:

- Universal Input 100 – 240 VAC
- IEC320-C14 Input Socket
- 11 VDC to 48 VDC
- Over-Current Protection
- Over-Voltage Protection
- 100% Burn-In
- LED Indication
- RoHS Compliant
- CEC Efficiency Level: V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.07A Max. at 115VAC 0.5A Max. at 230VAC
Power Factor Correction	1.0 Max., Full Load
Safety Ground Leakage Current	0.75mA Max. @ 240VAC, Full Load

Output

Output Voltage & Current	<i>See Chart</i>
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	Meets CEC Level V Criteria
No Load Power Consumption	≤0.5 Watts
Hold-Up Time	16mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±7% Max. at 230VAC
Inrush Current	45A @ 115VAC Max. 92A @ 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) CB (D) CE (E) PSE (11V - 33V Output) (F) FCC (G) CEC Level V



SP80P Series

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

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Output Voltage and Current Chart

Model Number**	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SP80P9XXR	11 - 13 VDC	7.27 - 6.15 A	5%	80W
SP80P9XXR	14 - 16 VDC	5.72 - 5.00 A	5%	80W
SP80P9XXR	17 - 21 VDC	4.71 - 3.80 A	5%	80W
SP80P9XXR	22 - 27 VDC	3.64 - 2.96 A	5%	80W
SP80P9XXR	28 - 33 VDC	2.86 - 2.42 A	5%	80W
SP80P9XXR	34 - 40 VDC	2.35 - 2.00 A	5%	80W
SP80P9XXR	41 - 48 VDC	1.95 - 1.66 A	5%	80W

** To Determine Part Number:

- Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 48VDC = "48", etc.)

Example: SP80P924R indicates a 24VDC Unit.

Note: Output Connector to be specified.

For 11V - 12V Output: A 4 ft. (18AWGx3C + 20AWGx2C) cable is required to meet CEC Efficiency Level V.

For 13V - 15V Output: A 4 ft. (16AWGx2C) cable is required to meet CEC Efficiency Level V.

For 16V - 20V Output: A 6 ft. (16AWGx2C) cable is required to meet CEC Efficiency Level V.

For 21V - 32V Output: A 6 ft. (18AWGx2C) cable is required to meet CEC Efficiency Level V.

For 33V - 48V Output: A 6 ft. (20AWGx2C) cable is required to meet CEC Efficiency Level V.

