



SP80P Series

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

Date: 12/21/10

Rev: 121510

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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 (UL 60950-1) (B) TUV/GS (EN 60950-1) (C) CB (D) CE (E) PSE (F) FCC (G) CEC 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.

