



SP68P Series

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

Date: 1/21/10

Rev: 010710

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Features:

- Universal Input 100 – 240 VAC
- IEC320-C14 Input Socket
- Short Circuit Protection
- Over-Current Protection
- Over-Voltage Protection
- 100% Burn-In
- LED Indication
- RoHS Compliant
- CEC Efficiency Level: IV



Input

| | |
|-------------------------------|---|
| Input Voltage | 90 to 264 VAC |
| Input Frequency | 47 to 63Hz |
| Input Current | 1.25A Max at 115VAC 0.5A Max at 230VAC |
| 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 IV Criteria |
| No Load Power Consumption | ≤0.5 Watts |
| Hold-Up Time | 16mS Max. |
| Line Regulation | ±1% Max. at Full Load |
| Load Regulation | ±5% Max. at 230VAC |
| Inrush Current | 15A @ 115VAC Max. 30A @ 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) | 130,000 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 (C) CB (D) CE (E) LPS (F) FCC (G) PSE |



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Output Voltage and Current Chart

| Model Number** | Output Voltage | Maximum Output Current | Output Peak Current | Total Regulation | Maximum Output Power |
|----------------|----------------|------------------------|---------------------|------------------|----------------------|
| SP68P9XXR | 12 - 13 VDC | 5.00 A | 6.66 A | 3% | 80W |
| SP68P9XXR | 21 - 27 VDC | 2.50 A | 3.33 A | 2% | 80W |

** To Determine Part Number:

- Replace "XX" with Required Output Voltage (12VDC = "12", 24VDC = "24")

Example: SP68P924R indicates a 24VDC Unit.

Note: Output Connector to be specified.

Standard Connector: 4 ft. (AWG#18) Cable w/ 5-Pin Power Din Plug.

