



Features:

- Universal Input 90 – 240 VAC
- IEC320-C14 Input Socket
- Single, Dual & Triple Outputs
- Power Factor Correction
- Input Surge Current Protection
- Over-Current Protection
- Over-Voltage Protection
- On/Off Switch
- RoHS Compliant



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 | 0.1mA 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

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|-----------------------|--|
| 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% Max. |
| Hold-Up Time | 16mS Min. |
| Line Regulation | ±1% Max. at Full Load |
| Load Regulation | ±7% Max. at 230VAC |
| Inrush Current | 15A @ 115VAC Max. 30A @ 230VAC Max. at 25°C Cold Start |
| Withstanding Voltage | 5600 VDC from Primary to Secondary, 2800 VDC from Primary 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) CISPR-11 Class B (B) FCC Part 18 Class B |
| Safety Standards | Meets or Exceeds: (A) UR Listed (B) TUV/T-Mark (C) CE (D) CB (E) PSE (F) CCC (12V Output Only) (G) KC (12V Output Only) (H) BSMI (12V Output Only) |



SM100P Series

Desk-Top, Switchmode Medical Power Supply
RoHS Compliant

Date: 4/18/08

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Single Output Voltage and Current Chart

| Model Number** | Output Voltage | Output Current | Total Regulation | Maximum Output Power |
|----------------|----------------|-----------------|------------------|----------------------|
| SM100P9XXR | 5 - 6 VDC | 14.00 - 11.67 A | 5% | 70W |
| SM100P9XXR | 6 - 8 VDC | 13.33 - 10.00 A | 5% | 80W |
| SM100P9XXR | 8 - 11 VDC | 11.25 - 8.20 A | 4% | 90W |
| SM100P9XXR | 12 - 13 VDC | 8.33 - 7.70 A | 3% | 100W |
| SM100P9XXR | 14 - 16 VDC | 7.14 - 6.30 A | 3% | 100W |
| SM100P9XXR | 17 - 21 VDC | 5.88 - 4.80 A | 3% | 100W |
| SM100P9XXR | 22 - 27 VDC | 4.55 - 3.70 A | 2% | 100W |
| SM100P9XXR | 28 - 33 VDC | 3.57 - 3.00 A | 2% | 100W |
| SM100P9XXR | 34 - 40 VDC | 2.94 - 2.50 A | 2% | 100W |

** To Determine Part Number:

Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 40VDC = "40", ect.)

Example: SM100P924R indicates a 24VDC Unit.

Dual Output Voltage and Current Chart

| Model Number | Output #1 Voltage & Regulation | Output #2 Voltage & Regulation | Maximum Output Power |
|--------------|--------------------------------|--------------------------------|----------------------|
| SM100P260R | +3.3V @ 10A 7% | +12V @ 3A 5% | 69W |
| SM100P250R | +5V @ 10A 5% | +12V @ 3A 5% | 80W |
| SM100P253R | +5V @ 10A 5% | +15V @ 3A 6% | 80W |
| SM100P254R | +5V @ 10A 5% | +24V @ 2A 5% | 80W |
| SM100P259R | +3.3V @ 10A 7% | +5V @ 5A 5% | 55W |
| SM100P256R | +12V @ 7A 5% | -12V @ 1A 5% | 80W |
| SM100P257R | +15V @ 6A 5% | -15V @ 1A 5% | 80W |
| SM100P265R | +24V @ 3A 5% | -24V @ 1A 5% | 80W |
| SM100P262R | +5V @ 10A 5% | -24V @ 1A 5% | 74W |



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Triple Output Voltage and Current Chart

| Model Number | Output #1 Voltage & Regulation | Output #2 Voltage & Regulation | Output #3 Voltage & Regulation | Maximum Output Power |
|--------------|--------------------------------|--------------------------------|--------------------------------|----------------------|
| SM100P382R | +3.3V @ 10A 7% | +12V @ 3A 5% | -12V @ 1A 5% | 74W |
| SM100P383R | +3.3V @ 10A 7% | +12V @ 3A 5% | +12V @ 1A 5% | 74W |
| SM100P377R | +5V @ 10A 5% | +12V @ 3A 5% | -5V @ 1A 5% | 80W |
| SM100P384R | +5V @ 10A 5% | +12V @ 3A 5% | +5V @ 1A 5% | 80W |
| SM100P370R | +5V @ 10A 5% | +12V @ 3A 5% | -12V @ 1A 5% | 80W |
| SM100P385R | +5V @ 10A 5% | +12V @ 3A 5% | +12V @ 1A 5% | 80W |
| SM100P374R | +5V @ 10A 5% | +15V @ 3A 6% | -15V @ 1A 5% | 80W |
| SM100P386R | +5V @ 10A 5% | +15V @ 3A 6% | +15V @ 1A 5% | 80W |
| SM100P376R | +5V @ 10A 5% | +24V @ 3A 5% | -24V @ 1A 5% | 80W |
| SM100P387R | +5V @ 10A 5% | +24V @ 3A 5% | +24V @ 1A 5% | 80W |
| SM100P379R | +5V @ 10A 5% | +24V @ 3A 5% | -12V @ 1A 5% | 80W |
| SM100P388R | +5V @ 10A 5% | +24V @ 3A 5% | +12V @ 1A 5% | 80W |
| SM100P380R | +3.3V @ 10A 7% | +12V @ 3A 5% | -5V @ 1A 5% | 74W |
| SM100P389R | +3.3V @ 10A 7% | +12V @ 3A 5% | +5V @ 1A 5% | 74W |
| SM100P393R | +3.3V @ 10A 7% | +5V @ 3A 5% | -12V @ 1A 5% | 60W |
| SM100P392R | +3.3V @ 10A 7% | +5V @ 3A 5% | +12V @ 1A 5% | 60W |

Note: Output Connector to be specified.

Standard Termination is a 6 ft. cable w/ 2.5x5.5x11mm Female Barrel Plug, Center Positive (+).

