



Features:

- Universal Input 90 – 264 VAC
- IEC320-C14 Input Socket
- Single, Dual & Triple Outputs
- Power Factor Correction
- Input Surge Current Protection
- Over-Current Protection
- Over-Voltage Protection
- 100% Burn-In
- RoHS Compliant



Input

| | |
|-------------------------------|---|
| Input Voltage | 90 to 264 VAC |
| Input Frequency | 47 to 63Hz |
| Input Current | 1.35A Max. at 115VAC 0.8A 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 +50°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 | 5656 VDC from Primary to Secondary, 2828 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 (5 - 6V, 8 - 13V, and 21 - 27V Output Only) |

Single Output Voltage and Current Chart

| Model Number** | Output Voltage | Output Current | Total Regulation | Maximum Output Power |
|----------------|----------------|----------------|------------------|----------------------|
| SM50P9XXR | 2 - 3 VDC | 12.0 - 10.0 A | 7% | 30W |
| SM50P9XXR | 3 - 6 VDC | 10.0 - 6.66 A | 5% | 40W |
| SM50P9XXR | 6 - 8 VDC | 7.00 - 5.25 A | 5% | 42W |
| SM50P9XXR | 8 - 11 VDC | 5.63 - 4.00 A | 4% | 45W |
| SM50P9XXR | 12 - 13 VDC | 3.75 - 3.46 A | 3% | 45W |
| SM50P9XXR | 14 - 16 VDC | 3.21 - 2.81 A | 3% | 45W |
| SM50P9XXR | 16 - 21 VDC | 3.13 - 2.38 A | 3% | 50W |
| SM50P9XXR | 22 - 27 VDC | 2.27 - 1.85 A | 2% | 50W |
| SM50P9XXR | 28 - 33 VDC | 1.79 - 1.52 A | 2% | 50W |
| SM50P9XXR | 34 - 40 VDC | 1.61 - 1.25 A | 2% | 50W |
| SM50P9XXR | 41 - 50 VDC | 1.22 - 1.00 A | 2% | 50W |

** To Determine Part Number:

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

Example: SM50P924R indicates a 24VDC Unit.

Note: This model is PSE approved for 5V - 6V Output, 8V - 13V Output, and 21V - 27V Output.

Dual Output Voltage and Current Chart

| Model Number | Output #1 Voltage & Regulation | | Output #2 Voltage & Regulation | | Maximum Output Power |
|--------------|--------------------------------|----|--------------------------------|----|----------------------|
| SM50P260R | +3.3V @ 5A | 7% | +12V @ 2A | 5% | 40W |
| SM50P250R | +5V @ 5A | 5% | +12V @ 2A | 5% | 42W |
| SM50P253R | +5V @ 5A | 5% | +15V @ 1.5A | 6% | 42W |
| SM50P254R | +5V @ 5A | 5% | +24V @ 1A | 5% | 42W |
| SM50P259R | +3.3V @ 5A | 7% | +5V @ 2A | 5% | 26.5W |
| SM50P256R | +12V @ 3A | 5% | -12V @ 1A | 5% | 42W |
| SM50P257R | +15V @ 2A | 5% | -15V @ 1A | 5% | 42W |
| SM50P262R | +5V @ 5A | 5% | -24V @ 1A | 5% | 42W |
| SM50P255R | +5V @ 5A | 5% | -5V @ 2A | 5% | 35W |



SM50P Series

Desk-Top, Switchmode Medical Power Supply
RoHS Compliant

Date: 7/11/11

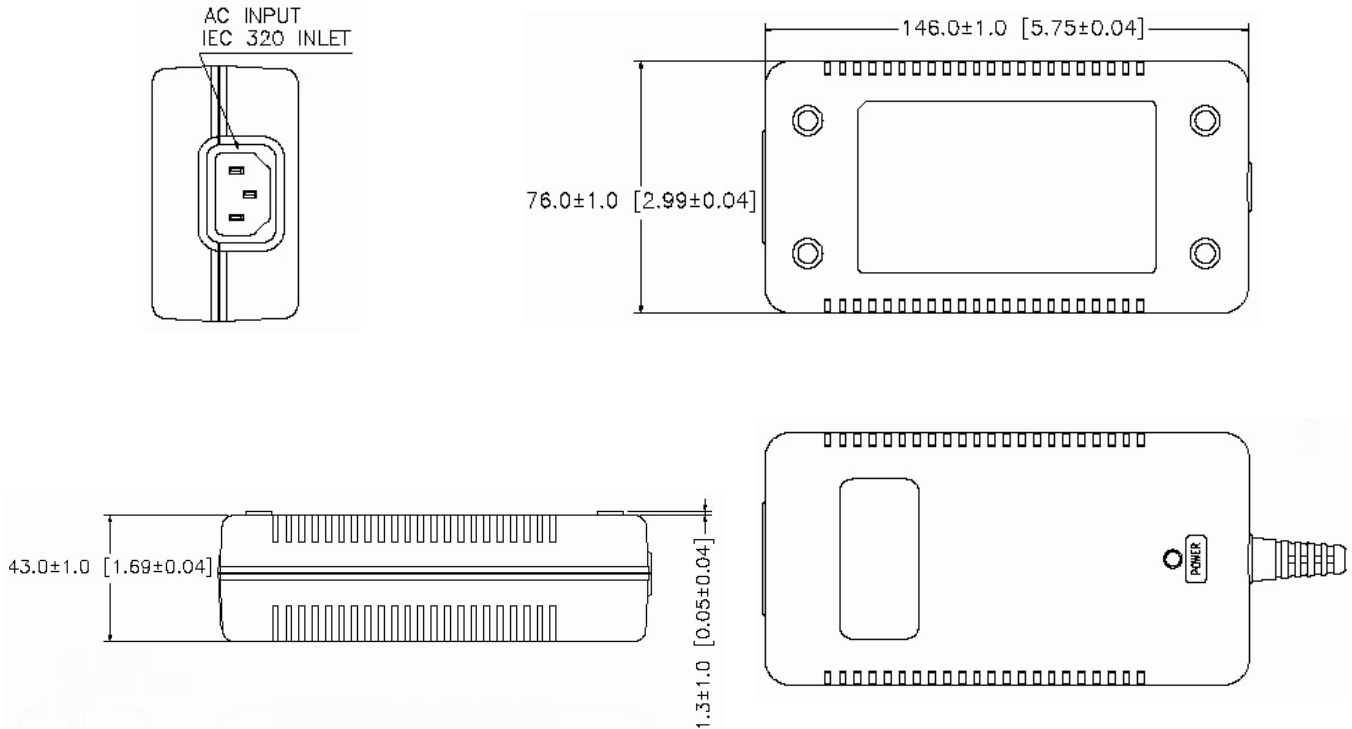
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Triple Output Voltage and Current Chart

| Model Number | Output #1 Voltage & Regulation | Output #2 Voltage & Regulation | Output #3 Voltage & Regulation | Maximum Output Power |
|--------------|--------------------------------|--------------------------------|--------------------------------|----------------------|
| SM50P382R | +3.3V @ 5A 7% | +12V @ 2A 5% | -12V @ 0.8A 5% | 42W |
| SM50P377R | +5V @ 5A 5% | +12V @ 2A 5% | -5V @ 0.8A 5% | 42W |
| SM50P370R | +5V @ 5A 5% | +12V @ 2A 5% | -12V @ 0.8A 5% | 42W |
| SM50P374R | +5V @ 5A 5% | +15V @ 2A 6% | -15V @ 0.8A 5% | 42W |
| SM50P376R | +5V @ 5A 5% | +24V @ 1A 5% | -24V @ 0.5A 5% | 42W |
| SM50P379R | +5V @ 5A 5% | +24V @ 1A 5% | -12V @ 0.8A 5% | 42W |
| SM50P380R | +3.3V @ 5A 7% | +12V @ 2A 5% | -5V @ 0.8A 5% | 42W |

Note: Output Connector to be specified.
Standard Termination is a 6 ft. (AWG#18) cable w/ 5-Pin Power Din plug.



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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