



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
- 100% Burn-In
- RoHS Compliant



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.35A Max. at 115VAC 0.7A Max. at 230VAC
Safety Ground Leakage Current	0.1mA 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	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) UL/c-UL (C) TUV/T-Mark (D) CE (E) CB



SM50P Series

Desk-Top, Switchmode Medical Power Supply
RoHS Compliant

Date: 4/18/08

Rev: 041808

Page: 2 of 3

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	13.3 - 6.66 A	5%	40W
SM50P9XXR	6 - 8 VDC	7.00 - 5.25 A	5%	42W
SM50P9XXR	8 - 11 VDC	5.63 - 4.09 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: SM50P924 R indicates a 24VDC Unit.

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



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

© Copyright 1978
APX Technologies, Inc.



SM50P Series

Desk-Top, Switchmode Medical Power Supply
RoHS Compliant

Date: 4/18/08

Rev: 041808

Page: 3 of 3

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.

