

FEATURES

- Active PFC
- Single Output
- High Reliability
- RoHS & Level V Compliant
- Medical Approved
- 100% Hi-pot Tested
- 100% Burn-in Tested
- 90~264VAC Input Range
- Safety Approvals, EMC Compliance
- Short Circuit, Over Load, and Over Voltage Protected

**DESCRIPTION**

The PSM200 series of AC/DC medical power supplies provides 200 Watts of continuous output power in a U-chassis design. All models have a single output, 90~264VAC full range input, and active PFC. These supplies are designed to comply with UL60601-1, CSA C22.2-No. 60601-1, EN60601-1, and IEC EN60601-1 3.1 Edition requirements. All models are protected against short circuit, over load, and over voltage conditions. This series is 100% hi-pot and burn-in tested.

SPECIFICATIONS: PSM200 Series

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
 We reserve the right to change specifications based on technological advances.

INPUT SPECIFICATIONS	
Input Voltage Range	90 ~ 264VAC (Full Range)
Input Frequency	47 ~ 63Hz
Input Current (rms)	3A at 115VAC max. 1.5A at 230VAC max.
Inrush Current	<35A peak at 115VAC <70 peak at 230VAC, cold start @25°C
Earth Leakage Current	< 228µA at 264VAC
OUTPUT SPECIFICATIONS	
Output Current	See Table
Output Voltage	See Table
Voltage Regulation	±5%
Output Power	200W max. with convection cooling
Ripple & Noise (20MHz BW) (See Note 1)	See Table
Hold Up Time	> 16ms typical at 115VAC and full load
PROTECTION	
Short Circuit Protection	Auto recover
Over Voltage Protection	Shutdown and Latch Off, AC recycle
Over Load Protection	110-160% maximum rating, Auto Recovery
GENERAL SPECIFICATIONS	
Efficiency	> 87% typical at 115VAC and full load
No Load Power Consumption	< 500mW
Power Factor	> 0.95 at 115VAC, >0.90 230VAC and full load
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	0°C ~ +60°C convection cooling (Derate linearly 2.5% per °C from 41 to 60°C)
Storage Temperature	-10°C to +85°C
Humidity	10% ~ 95% Non-Condensing
MTBF	>140,000 hours at full load and 25°C ambient temperature
PHYSICAL SPECIFICATIONS	
Dimensions (L x W x H)	6.94 x 3.74 x 1.97 inches 176 x 95 x 50 mm
Weight	1.28 lbs (580g)
SAFETY & EMI	
Safety Standards	UL60601-1 3.1 Edition ⁽²⁾ , CSA C22.2-No. 60601-1 3.1 Edition, EN60601-1 3.1 Edition, IEC EN60601-1 3.1 Edition
EMC Standards	EN60601-1-2 4 th Edition, FCC Part 18 Class B, EN55011 Class B, CE

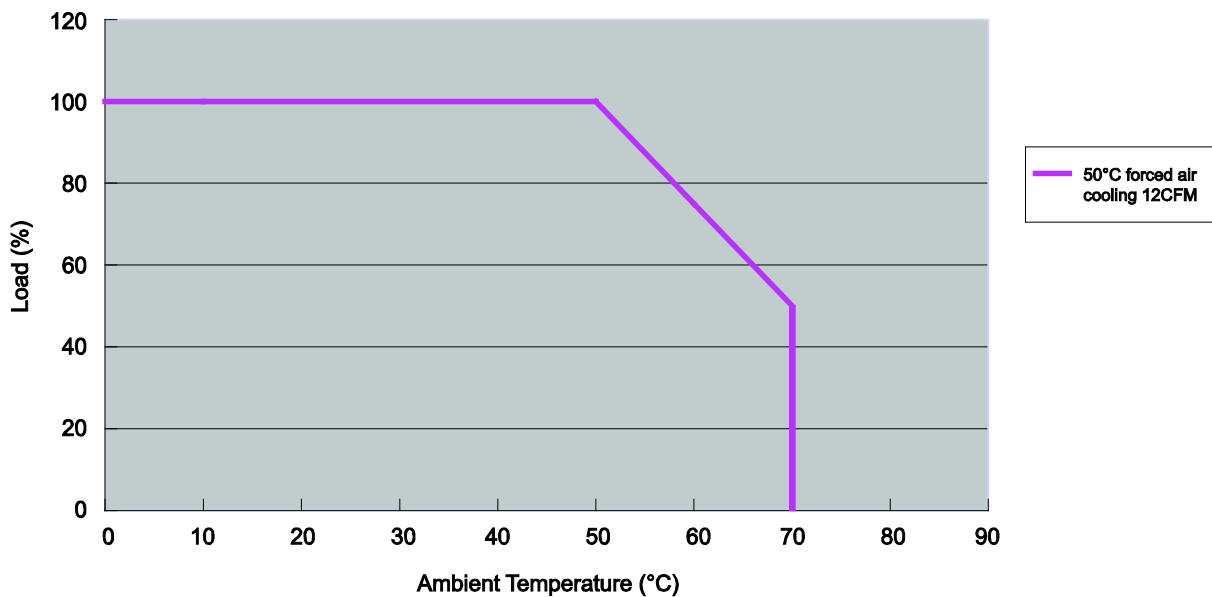
MODEL SELECTION GUIDE

Model	Input Voltage	Output Voltage	Output Current	Ripple & Noise	Output Power
PSM200A3-1Y12	90 ~ 264 VAC	12 VDC	16.66A	240mVp-p	200W
PSM200A3-1Y16	90 ~ 264 VAC	16 VDC	12.50A	300mVp-p	200W
PSM200A3-1Y19	90 ~ 264 VAC	19 VDC	10.53A	300mVp-p	200W
PSM200A3-1Y20	90 ~ 264 VAC	20 VDC	10A	300mVp-p	200W
PSM200A3-1Y24	90 ~ 264 VAC	24 VDC	8.33A	300mVp-p	200W
PSM200A3-1Y36	90 ~ 264 VAC	36 VDC	5.555A	300mVp-p	200W
PSM200A3-1Y48	90 ~ 264 VAC	48 VDC	4.166A	300mVp-p	200W

NOTES

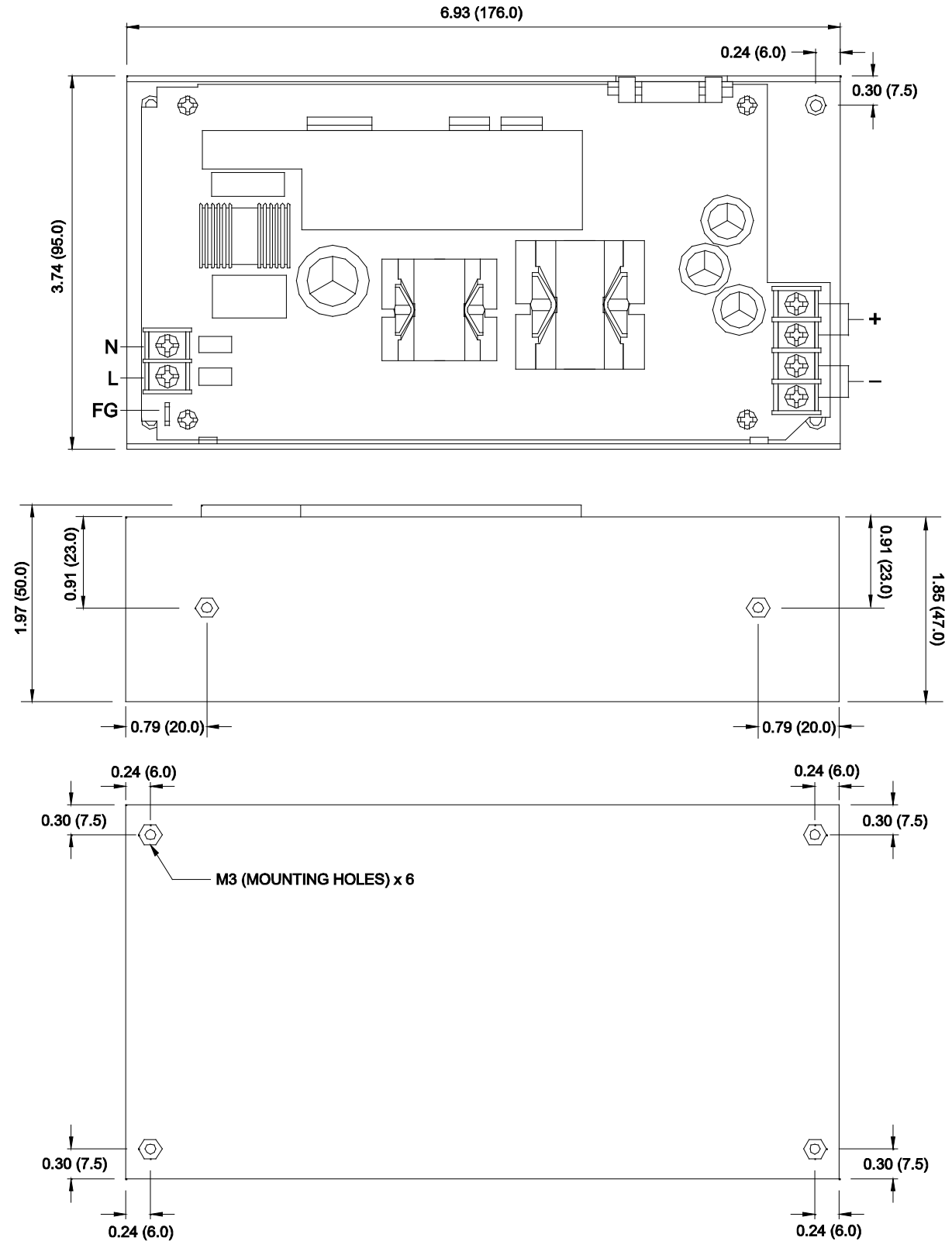
- Ripple & Noise is measured at 20MHz bandwidth with a tantalum 10 μ F in parallel with a 0.1 μ F ceramic capacitor.
- This product is Listed to applicable standards and requirements by UL.
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVE



MECHANICAL DRAWING

Unit: inches (mm)





Rev. H

PSM200 Series
Single Output
200 Watt, U-Chassis
AC/DC Medical Power Supply

Wall Industries, Inc.

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

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