FEATURES

- Active PFC
- Single Output
- High Reliability
- RoHS 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, TUV EN60601-1, and CB IEC60601-1 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.

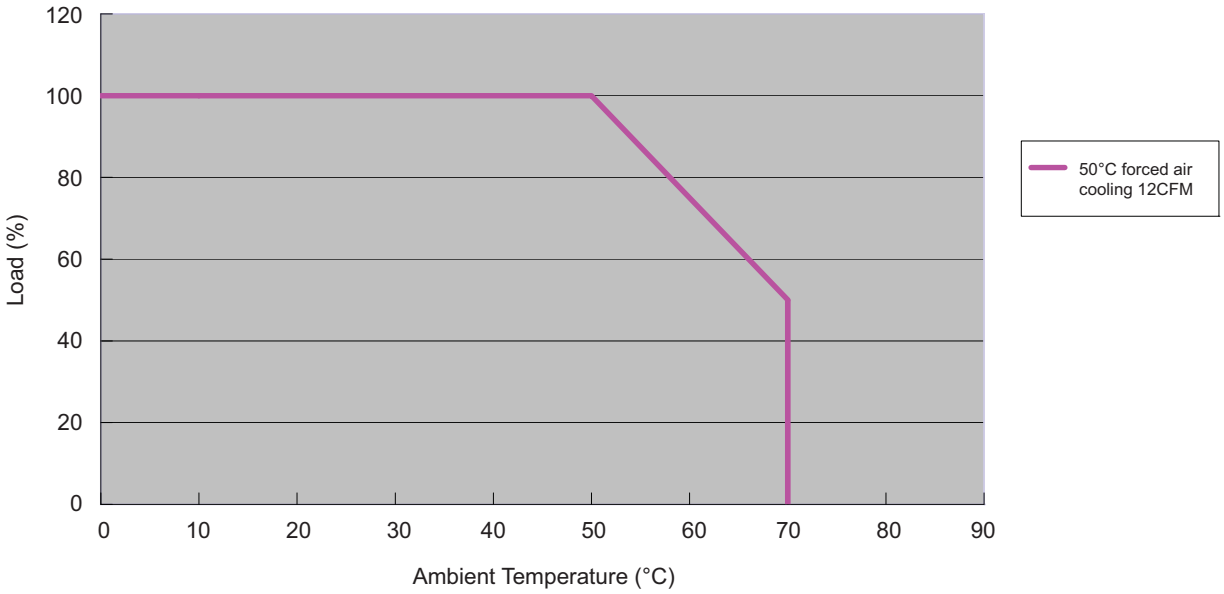
INPUT SPECIFICATIONS	
Input Voltage Range	90 ~ 264VAC (Full Range)
Input Frequency	47 ~ 63Hz
Input Current (rms)	3A at 90VAC max. 1.5A at 264VAC max.
Leakage Current	< 300μA at 264VAC
OUTPUT SPECIFICATIONS	
Output Current	See Table
Output Voltage	See Table
Voltage Regulation	±5%
Output Power	200W max.
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	Latch, AC recycle
Over Load Protection	Auto recover
GENERAL SPECIFICATIONS	
Efficiency	> 87% at 115VAC and full load
No Load Power Consumption	< 500mW
Power Factor	> 0.9 at 115VAC/230VAC and full load
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	0°C ~ +40°C convection cooling
Storage Temperature	-10°C to +85°C
Humidity	20% ~ 90%
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	1.3 lbs (580g)
SAFETY & EMI	
Safety Standards	UL/c-UL UL60601-1, CSA C22.2-No. 60601-1, TUV EN60601-1, CB IEC60601-1
EMC Standards	EN60601-1-2, 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

1. Ripple & Noise is measured at 20MHz bandwidth with a tantalum 10μF in parallel with a 0.1μF ceramic capacitor.

DERATING CURVE



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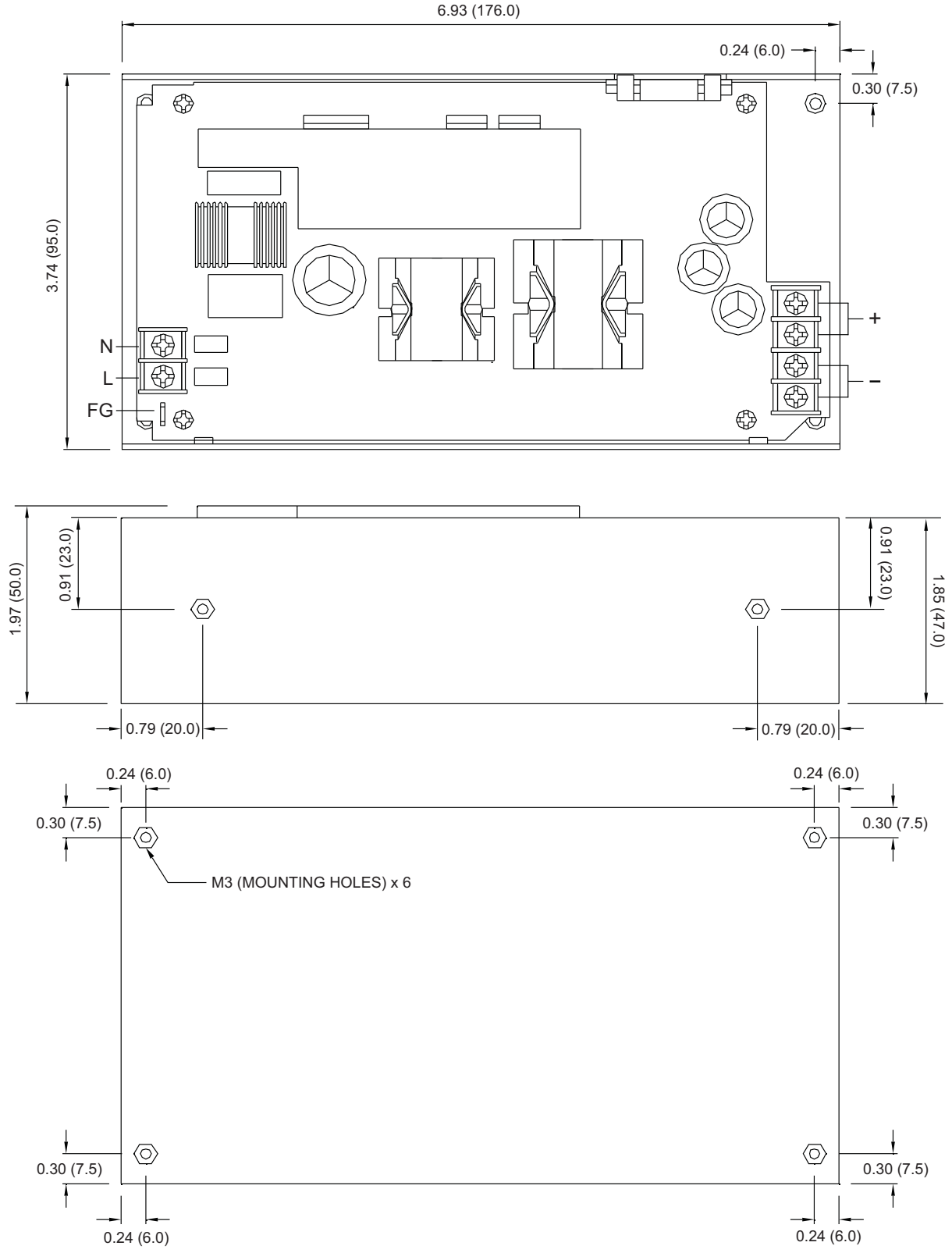
Unit: inches (mm)