

## Model

# PAM250

250 Watts<sub>max</sub> output power

Power Factor Correction

Single Output

## Switch Mode Power Supply



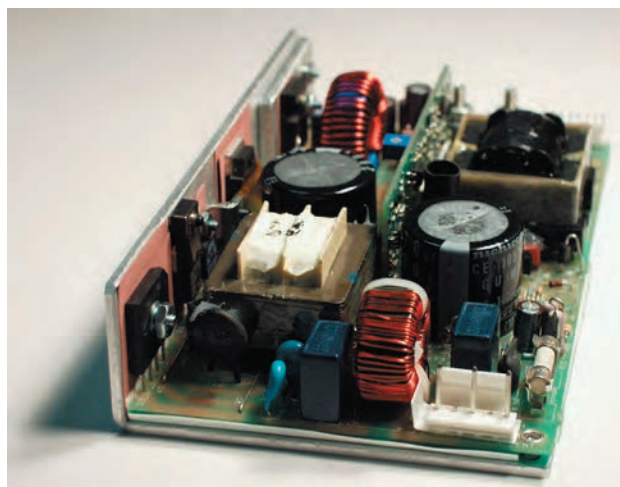
Medical Grade  
Certifications

H.A.L.T.  
TESTED

Highly  
Accelerated  
Life  
Testing

### Electrical Specifications

Input Voltage:	85-132/180-264 VAC, 47-63 Hz, 1 phase
Input Current:	<6A RMS @ 115 VAC @ full load <3A RMS @ 230 VAC @ full load
Inrush Current:	<35A, pk @ 265 VAC @ cold start <75A, pk @ 132 VAC @ cold start
Harmonic Distortion:	Meets EN61000-3-2 for Class A
EMI Filtering:	Meets CISPR 11 and 22 and FCC Part 15 Class B (conducted)
Input Protection:	Internal AC line fuse; 250 VAC, 8A
Output Power:	250W with 25CFM air; 130W Convection
Line Regulation:	± 0.3%
Load Regulation:	± 0.5%
PARD:	<1% or 50mV; 20MHz bandwidth
Hold-up Time:	16 ms @ full load (120 VAC)
Output Polarity:	Output is floating
Minimum Load:	0% of rated load
Transient Response:	3% for 25% load change @ 1A/μs; 50% duty cycle 50/60 Hz
Output Rise Time:	<100 ms (10% to 90%)
Current Limit:	105-130% of rated current; Hiccup
Remote Sense:	Compensates for up to 250mV of total cable drop
Remote On/Off:	Optional
Leakage Current:	< 300 μA



Thermal Shutdown	Standard
DC OK:	Standard; Open Collector
Turn-on Delay:	<1 second after application of AC Input
Stability:	<0.1% for 8 hours after 1/2-hour warm up
Isolation:	>20 MΩ @ 100 VDC between output terminals and chassis ground
AC Power Fail:	TTL <sub>LOW</sub> logic "0" at least 2 ms before output drops 5%; Open collector
Overvoltage Protect:	Factory set, 125% ±5%, cycle AC to reset
Reverse Voltage:	Output has reverse voltage protection; Reverse current limited to 100% of output rating
Efficiency:	Up to 85%
MTBF:	MIL-STD-HDBK 217E >200,000 hours @ 25°C Highly Accelerated Life Testing

### Available Voltage Outputs\*

Voltage Codes	Voltages (Volts)	Continuous Current (Amps)
<b>-4</b>	<b>12.0</b>	<b>21</b>
<b>-5</b>	<b>15.0</b>	<b>17</b>
<b>-6</b>	<b>24.0</b>	<b>10.5</b>
-7	28.0	9.0
-8	36.0	7.2
<b>-9</b>	<b>48.0</b>	<b>5.5</b>

\* Consult factory for other voltages and OEM quantities.

Note: Standard models are shown **bold**

### PART # STRUCTURE:

MODEL - VOLTAGE CODE - OPTION CODES (back)  
 - V1 -  
**PAM250** - **X** - **ABC....**

Example: Part Number **PAM250-6-OR**= 250W Power Factor Corrected, 24V @ 10.5A with an OR-ring Diode and Remote On/Off.  
 See 3rd page for PAM250 CODE TABLE AND AVAILABLE OPTIONS.

Model

## PAM250

Options (code)

- |   |                                    |
|---|------------------------------------|
| 12V@0.5A Aux./Fan Drive (A)             | Droop Current Share $\pm 10\%$ (B) |
| Fan Assembly (C)                        | DC OK Invert (E)                   |
| PF Invert (F)                           | Field-Configurable (G)             |
| Single Wire Current Share $\pm 5\%$ (I) | Square Current Limit (J)           |
| Molex Connector (K)                     | Metric Mounting (M)                |
| OR-ing Diode (O)                        | Remote On/Off (R)                  |
| Remote On/Off Invert (S)                |                                    |

**GUZym7 ca d'JubWV**

- Recognition to UL60601-1
- CSA C22.2 No. 601.1
- BAUART Certification to EN60601-1
- CB Test Report in Accordance with IEC60601-1
- CE Declaration to Low Voltage Directive 2006/95/EC

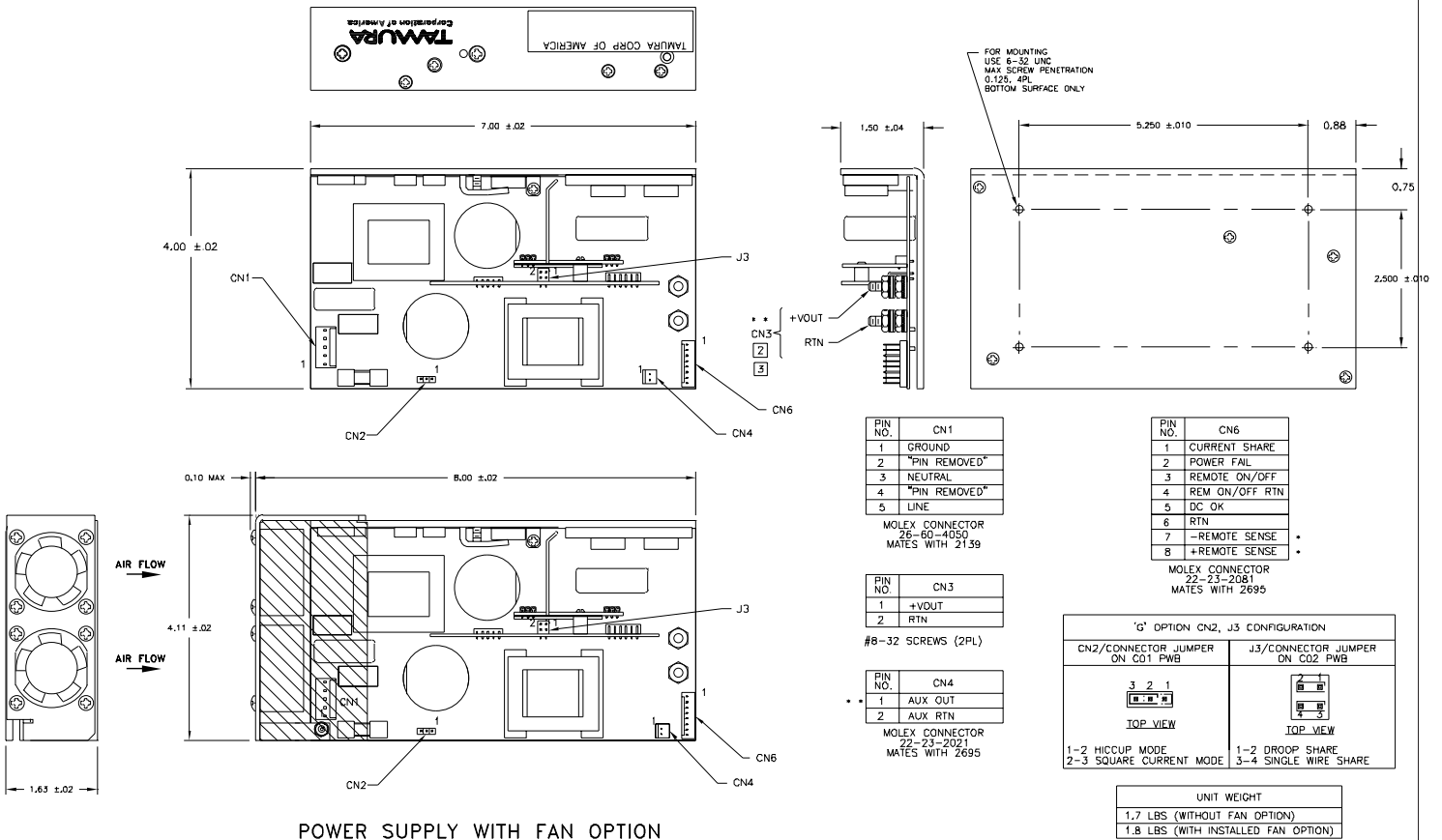


### Surge & ESD Test Levels

- |   |                                |
|---|--------------------------------|
| EN61000-4-5 Level 3                             | EN61000-4-2 Level 2            |
| EN61000-3-2 for Class A                         | EN61000-4-2 Level 3 (Air Only) |
| EN61000-4-4 Level 3                             | EN61000-4-11                   |
| CISPR 11 and 22 FCC Part 15 Class B (conducted) |                                |

### Physical Specifications

- |                     |   |
|---------------------|---|
| Dimensions: (HxWxL) | 1.5" x 4.0" x 7"  |
| Operating Temp:     | 0 to 70°C; rated power to 50°C<br>derate linearly to 50% at 70°C. |
| Relative Humidity:  | 5% to 90%, non-condensing   |
| Storage:            | -50 to 85°C/20-90% RH   |
| Altitude:           | 6561<br>40,000' storage   |



[3] OPTIONAL—MOLEX CONNECTOR (OPTION 'K'—LIMITED TO 7A) MAY BE SPECIFIED FOR CN3 INSTEAD OF STANDARD OUTPUT STUDS.  
 [2] DO NOT EXCEED 17 INCH-LBS (MAX TORQUE) WHEN TIGHTENING TOP NUTS ON OUTPUT STUDS.  
 1. FOR CLARITY NOT ALL ITEMS ARE SHOWN IN EACH VIEW.

\* **WARNING:** DAMAGE WILL OCCUR IF REMOTE SENSE LEADS (CN6-7 & CN6-8) ARE REVERSED OR USED WITH LOAD DISCONNECTED FROM OUTPUT (CN3).  
 \*\* **NOTE:** FOR PROPER REGULATION OF AUXILIARY OUTPUT, APPLY AT LEAST 10% OF RATED LOAD TO VOUT.



# PAM250 Series Power Supply

Standard Models  
PAS250-X-Y<sub>1</sub> ... Y<sub>n</sub>

Tailored Models  
PAS250-60ZZZ

Custom Models  
PAS250-61ZZZ

	Voltage and Current Ratings		Standard Options
X Codes	Volts	Amps	Y Code Descriptions
1	Not Available		A 12Vdc, 0.5A Auxiliary Output** B Droop Share* C Fan Assembly** E DCOK Invert F PF Invert G Field configurable options – B, I, and J I Single Wire Share* J Square Current Limit K Molex Connector, 7A max. (#8 stud standard) M Metric Mounting O ORing Diode R Remote On/Off (closed is OFF) S Remote On/Off Invert (open is OFF)  *Includes Option J **Options A and C are not available together
2	Not Available		
3	Not Available		
4	12.0	21.0	
5	15.0	17.0	
6	24.0	10.5	
7	28.0	9.0	
8	36.0	7.2	
9	48.0	5.5	
			Tailored Units (no safety changes)
			60ZZZ, where ZZZ = Factory Assigned Number Harnesses Added, Special test data, Etc.
			Custom Units (safety critical changes)
			61ZZZ, where ZZZ = Factory Assigned Number