

**Model**

**Switch Mode Power Supply**

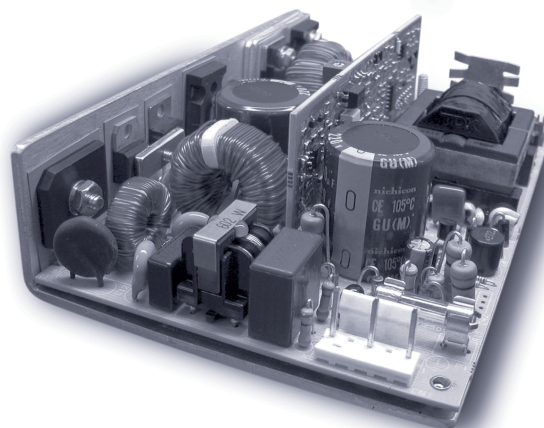
# PAS150

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

Power Factor Correction

Single Output

**H.A.L.T.** Highly Accelerated Life Testing  
TESTED



## Electrical Specifications

Input Voltage: 85-132/180-264 VAC, 47-63 Hz, 1 phase  
 Input Current: <3.2A RMS @ 115 VAC @ full load  
 <1.6A RMS @ 230 VAC @ full load  
 Inrush Current: <25A, pk @ 132 VAC @ cold start  
 <50A, pk @ 265 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, 6.3A

Output Power: 150W with 15CFM air; 80W Convection  
 Line Regulation: ± 0.3%  
 Load Regulation: ± 0.5%  
 PARD: <1% or 50mV; 20MHz bandwidth  
 Hold-up Time: 20 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

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)
-2	3.3	30
<b>-3</b>	<b>5.0</b>	<b>30</b>
<b>-4</b>	<b>12.0</b>	<b>12.5</b>
<b>-5</b>	<b>15.0</b>	<b>10.5</b>
<b>-6</b>	<b>24.0</b>	<b>6.5</b>
-7	28.0	5.5
-8	36.0	4.5
<b>-9</b>	<b>48.0</b>	<b>3.5</b>

\* Consult factory for other voltages and OEM quantities.

Note: Standard models are shown **bold**

### PART # STRUCTURE:

**MODEL** - **VOLTAGE CODE** - **OPTION CODES** (See back)  
 - **V1** -  
**PAS150** - **X** - **ABC...**

Example: Part Number **PAS150-4-CF**= 150W Power Factor Corrected, 12V @ 12.5A with a fan assembly and power fail invert. See 3rd page for PAS150 CODE TABLE AND AVAILABLE OPTIONS.

## Model PAS150



### Options

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

### Safety Compliance

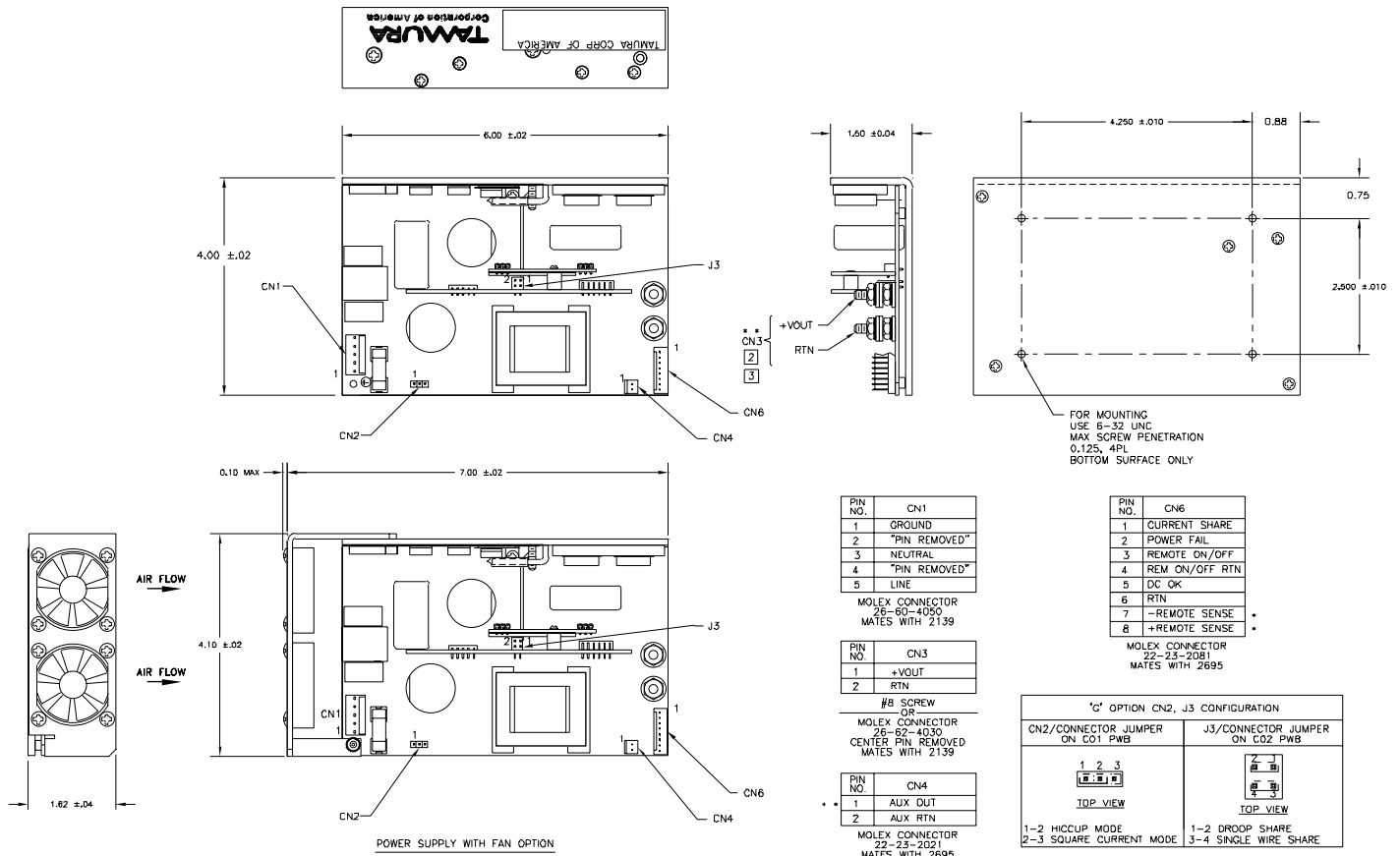
IEC / EN / UL / CSA 60950-1  
 CE Declaration to Low Voltage Directive 2006/95/EC and  
 RoHS Directive 2011/65/EU

### Surge & ESD Test Levels

- EN61000-4-5 Level 3
- EN61000-3-2 for Class A
- EN61000-4-4 Level 3
- Meets Class B conducted limits per CISPR 11/22 and 47 CFR 15 subpt B
- EN61000-4-2 Level 2
- EN61000-4-2 Level 3 (Air Only)
- EN61000-4-11

### Physical Specifications

- Dimensions: (HxWxL) 1.5" x 4.0" x 6"
- Operating Temp: 0 to 70°C; rated power to 50°C derate linearly to 50% at 70°C.
- Relative Humidity: 5% to 90%, non-condensing
- Storage: -50 to 85°C/20-90% RH
- Altitude: 6561 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. NOTES: UNLESS OTHERWISE SPECIFIED

\* 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 AUX OUTPUT, APPLY AT LEAST 10% OF RATED LOAD TO VOUT.

UNIT WEIGHT	
1.5 LBS (WITHOUT FAN OPTION)	
1.6 LBS (WITH INSTALLED FAN OPTION)	



## PAS150 Series Power Supply

Standard Models  
PAS150-X-Y<sub>1</sub>....Y<sub>n</sub>

Tailored Models  
PAS150-60ZZZ

Custom Models  
PAS150-61ZZZ

	Voltage and Current Ratings		Standard Options
X Codes	Volts	Amps	"Y" Code Descriptions
1	Not Available		<ul style="list-style-type: none"> <li>A 12Vdc, 0.5A Auxiliary Output**</li> <li>B Droop Share*</li> <li>C Fan Assembly**</li> <li>E DCOK Invert</li> <li>F PF Invert</li> <li>G Field configurable options – B, I, and J</li> <li>I Single Wire Share*</li> <li>J Square Current Limit</li> <li>K Molex Connector, 7A max. (#8 studs standard)</li> <li>M Metric Mounting</li> <li>O ORing Diode</li> <li>R Remote On/Off (closed is OFF)</li> <li>S Remote On/Off Invert (open is OFF)</li> </ul> <p>*Includes Option J **Options A and C are not available together</p>
2	3.3	30.0	
3	5.0	30.0	
4	12.0	12.5	
5	15.0	10.5	
6	24.0	6.5	
7	28.0	5.5	
8	36.0	4.5	
9	48.0	3.5	
			<p>Tailored Units (no safety changes)</p> <p>-----</p> <p>60ZZZ, where ZZZ = Factory Assigned Number Harnesses Added, Special test data ,Etc.</p>
			<p>Custom Units (safety critical changes)</p> <p>-----</p> <p>61ZZZ, where ZZZ = Factory Assigned Number</p>