

Model

Switch Mode Power Supply

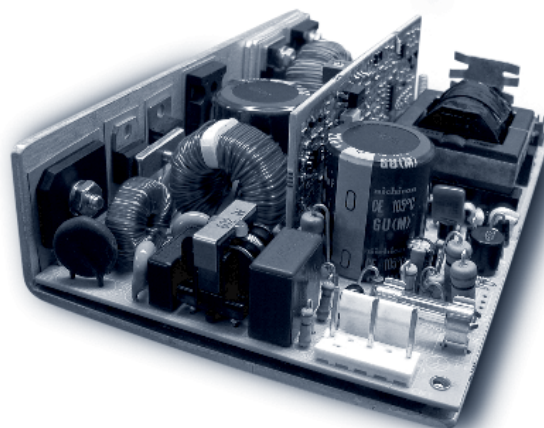
PAS150

150 Watts_{max} 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_{LOW} 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
-3	5.0	30
-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

* 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

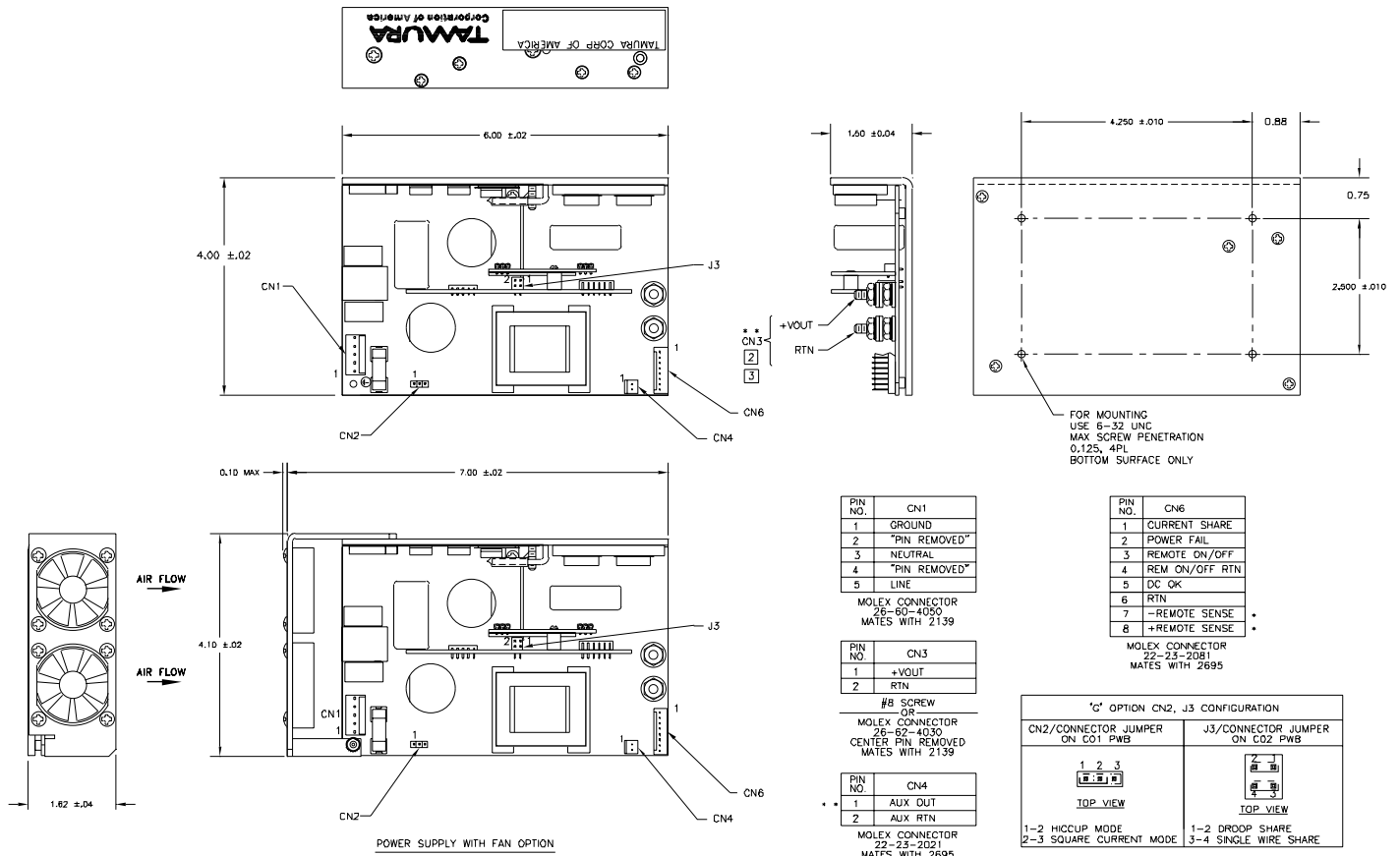
IEC / EN / UL / CSA 60950-1
 CE Declaration to Low Voltage Directive 2006/95/EC and
 RoHS Directive 2011/65/EU

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-Y₁...Y_n

Tailored Models
PAS150-60ZZZ

Custom Models
PAS150-61ZZZ

X Codes	Voltage and Current Ratings		Standard Options
	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 studs 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	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	
			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