

TAMURA Corporation of America

Model

Switch Mode Power Supply

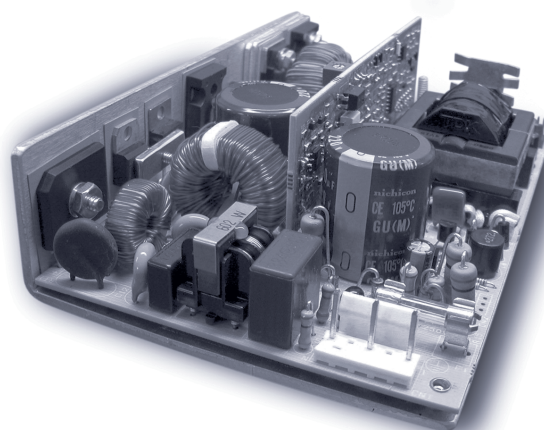
PAS150

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: $\pm 0.3\%$

Load Regulation: $\pm 0.5\%$

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/ μ s;
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

DC OK:

Turn-on Delay:

Stability:

Isolation:

AC Power Fail:

Overvoltage Protect:

Reverse Voltage:

Efficiency:

MTBF:

Standard

Standard; Open Collector

<1 second after application of AC Input

<0.1% for 8 hours
after 1/2-hour warm up

>20 M Ω @ 100 VDC between output
terminals and chassis ground

TTL_{LOW} logic "0" at least 2 ms before
output drops 5%; Open Collector

Factory set, 125% $\pm$ 5%,
cycle AC to reset

Output has reverse voltage protection;
Reverse current limited to 100% of output
rating

Up to 85%

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)

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) 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)

Safety Compliance

IEC / EN / UL / CSA 60950-1

CE Declaration to Low Voltage Directive 2006/95/EC and
 RoHS Directive 2011/65/EU

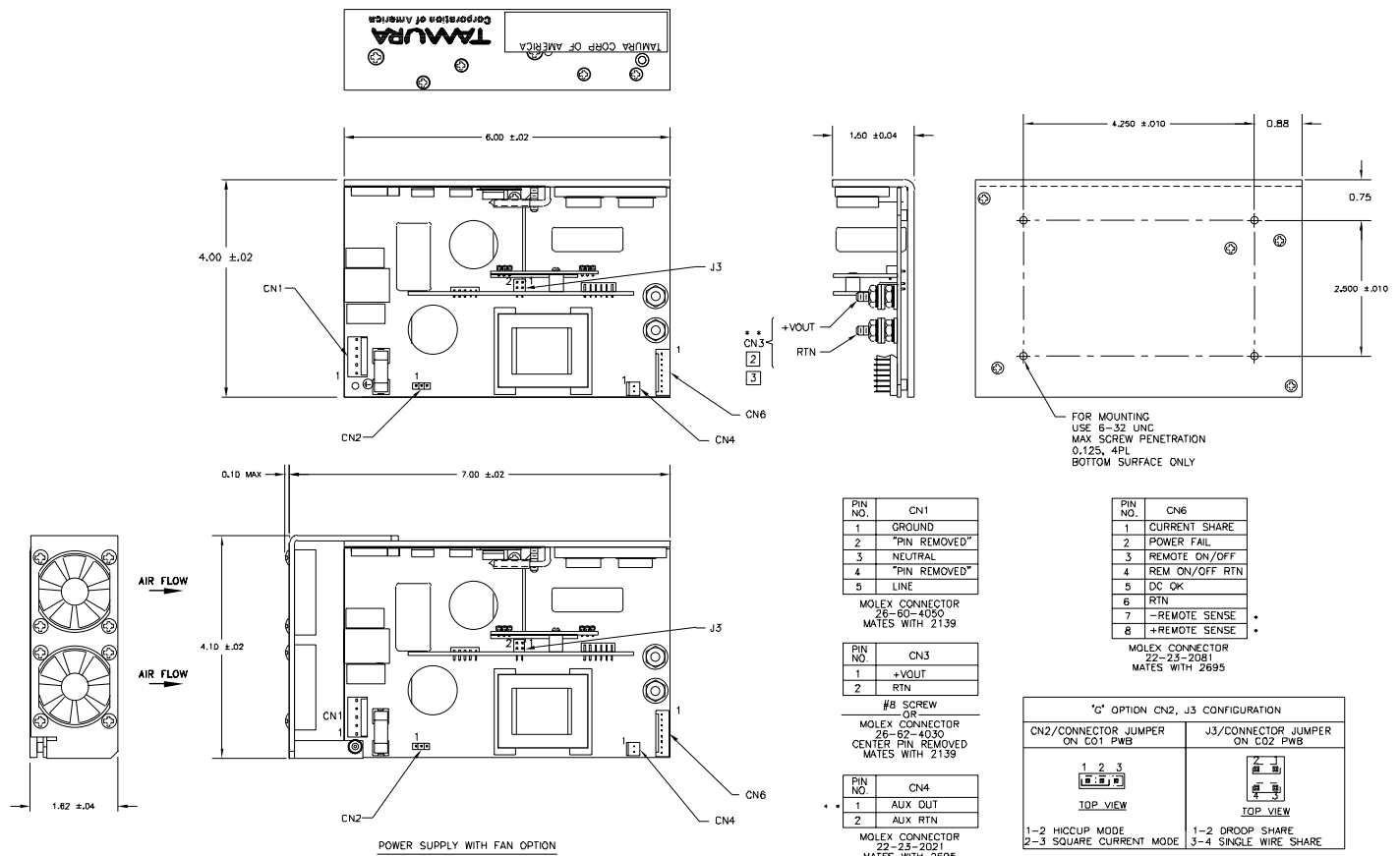


Surge & ESD Test Levels

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

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.

PAS150 Series Power Supply

Standard Models
PAS150-X-Y₁...Y_n

Tailored Models
PAS150-60ZZZ

Custom Models
PAS150-61ZZZ

	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 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

Mouser Electronics

Authorized Distributor

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Tamura:

[PAS150-2AG](#) [PAS150-6AG](#) [PAS150-5AG](#) [PAS150-9AG](#) [PAS150-4AG](#) [PAS150-3AG](#)