

## TAMURÁ Corporation of America

### Model

# M150

150 Wattsmax output power

Power Factor Correction

Single Output

### **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

Power Factor: Meets Class A requirements 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 Convec ion

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 floa ing Minimum Load: 0% of rated load

Transient Response: 3% for 25% load change @ 1A/µs,

50% duty cycle 50/60 Hz

<100 ms (10% to 90%) Output Rise Time:

Current Limit: 105-130% of rated current; Hiccup

Remote Sense: Compensates for up to 250mV of total cable

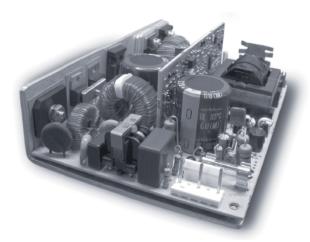
Remote On/Off: Optional Leakage Current: < 300 µA **Switch Mode Power Supply** 



TESTED

Medical Grade Certifications

Highly Accelerated Life Testing



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

TTL<sub>LOW</sub> logic "0" at least 2 ms before AC Power Fail:

output drops 5%; Open Collector

Highly Accelerated Life Testing

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

Up to 85% Efficiency:

MTBF: MIL-STD-HDBK 217E >200,000 hours @ 25°C

### Available Voltage Outputs\*

		Continuous
Voltage Codes	Voltages (Volts)	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

<sup>\*</sup> Consult factory for other voltages and OEM quantities. Note: Standard models are shown bold

### PART # STRUCTURE:

VOLTAGE CODE **OPTION CODES** (See back) MODEL

V1 PAM150 ABC ....



## TAMURÁ Corporation of America

# PAM150 Options (code)

12V@0.5A Aux./Fan Drive (A)

Fan Assembly (C)
PF Invert (F)
Single Wire Current Share ±5% (I)
Molex Connector (K)
OR-ing Diode (O)

Droop Current Share ±10% (B)
DC OK Invert (E)
Field-Configurable (G)
Square Current Limit (J)
Metric Moun ing (M)
Remote On/Off (R)

### Safety Compliance

UL60601-1

CSA C22.2 No. 601.1

Remote On/Off Invert (S)

BAUART Certification to EN60601-1

CB Test Report in Accordance with IEC60601-1 CE Declaration to Low Voltage Direc ive 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 6"

Operating Temp: 0 to 70°C; rated power to 50°C

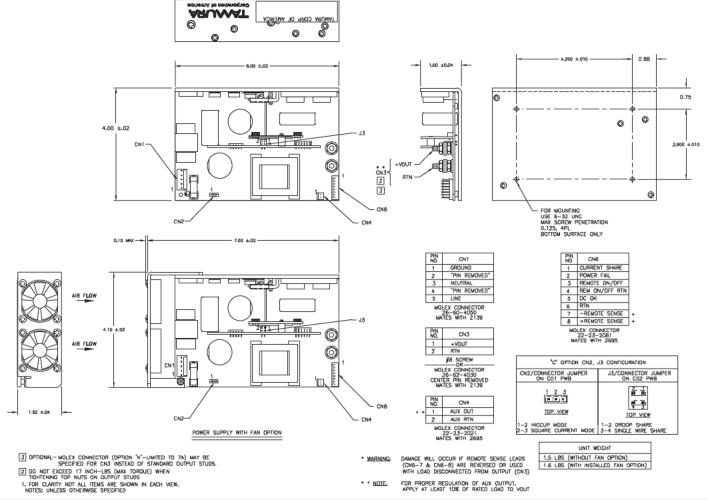
derate linearly to 50% at 70°C.

Relative Humidity: 5% to 90%, non-condensing

Storage: -50 to 85°C/20-90% RH

Altitude: 6561

40,000' storage



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Item 40620 Rev A





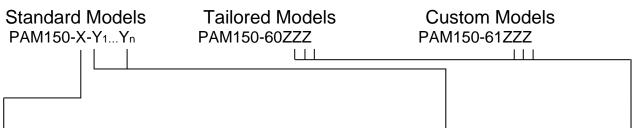




### PRODUCT CODE TABLE



### **PAM150 Series Power Supply**



<u> </u>				
	Voltage and Cu	urrent 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**	
2	3.3	30.0	C Fan Assembly** E DCOK Invert F PF Invert	
3	5.0	30.0	G Field configurable options – B, I, and J I Single Wire Share*	
4	12.0	12.5	J Square Current Limit K Molex Connector, 7A max. (#8 studs standard)	
5	15.0	10.5	M Metric Mounting O ORing Diode	
6	24.0	6.5	R Remote On/Off (closed is OFF) S Remote On/Off Invert (open is OFF)	
7	28.0	5.5	*Includes Option J  **Options A and C are not available together	
8	36.0	4.5	Options A and C are not available together	
9	48.0	3.5	Tailored Units (no safety changes):	
			Custom Units (safety critical changes)	
			61ZZZ, where ZZZ = Factory Assigned Number	