



Size: 7.42in x 4.11in x 2.36in
(188.5mm x 104.5mm x 60.0mm)

FEATURES

- Input Voltage Range 90-264VAC
- 3-Pole IEC320-C14 AC Inlet
- Meets DOE Level VI Requirements
- Meets EU Tier 1 Efficiency Requirements
- Built in 40x40x10mm DC fan with Fan Speed Control
- Short Circuit, Over Load, and Over Voltage Protection
- RoHS Compliant
- Medical 60601-1 3rd Edition Safety Approvals

DESCRIPTION

The DTAM250 series of AC/DC desktop power supplies offers 250 watts of output power in a 7.42" x 4.11" x 2.36" package. This series consists of single output models with a wide input voltage range of 90-264VAC. Each model in this series has 3-pole IEC320-C14 AC inlet, has short circuit, over load, and over voltage protection, and is RoHS compliant and Level VI. This series has 60601-1 3rd edition medical safety approvals.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency
DTAM250A4-1Y120E	90-264VAC	12V	20.83A	240mV	250W	>88%
DTAM250A4-1Y160E		16V	15.63A	300mV	250W	
DTAM250A4-1Y190E		19V	13.16A	300mV	250W	
DTAM250A4-1Y200E		20V	12.5A	300mV	250W	
DTAM250A4-1Y240E		24V	10.42A	300mV	250W	
DTAM250A4-1Y360E		36V	6.94A	300mV	250W	
DTAM250A4-1Y480E		48V	5.21A	300mV	250W	

SPECIFICATIONS

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (rms)	@90VAC			3.5	A
	@264VAC			1.75	
Inrush Current	@115VAC, Cold Start, @25°C			65	A Peak
	@230VAC, Cold Start, @25°C			130	
Touch Current	@264VAC			190	uA
Power Factor	@115VAC, Full Load	0.95			
	@230VAC, Full Load	0.90			
OUTPUT SPECIFICATIONS					
Output Voltage				See Table	
Output Regulation			±5		%
Output Power				See Table	
Output Current				See Table	
Ripple & Noise (20MHz bandwidth)				See Table	
No Load Power Consumption				210	mW
Hold-Up Time	@Full Load, 115VAC		>16		mA
PROTECTION					
Short Circuit Protection				Automatic Recovery	
Over Load Protection				Automatic Recovery	
Over Voltage Protection				Shutdown and Latch Off, AC Recycle	
ENVIRONMENTAL SPECIFICATIONS					
Operating Case Temperature	Derate linearly 2.5% per °C from 41 to 60°C	-20		+60	°C
	Derate linearly 1.0% per °C from -1 to 20 °C				
Storage Temperature		-20		+85	°C
Humidity		10		95	%
Altitude				3000	m
MTBF	@Full Load and 25°C ambient temperature	140,000			Hours

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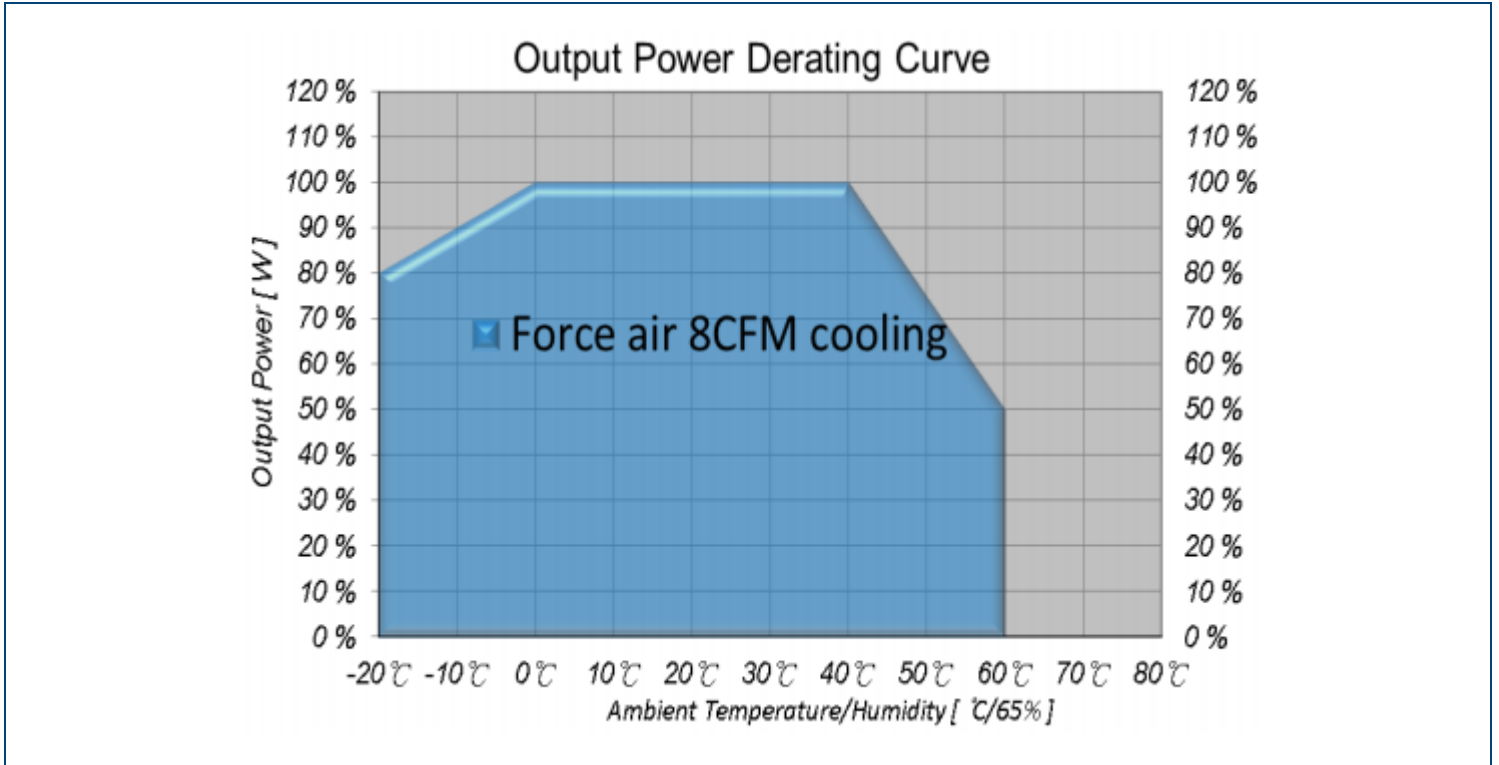
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency	@Average Load, 115/230VAC	88			%
PHYSICAL SPECIFICATIONS					
Weight		2.31lbs (1.05kgs)			
Dimensions (L x W x H)		7.42in x 4.11in x 2.36in (188.5mm x 104.5mm x 60mm)			
Fan		Built In 40x40x10mm DC Fan with Fan Speed Control			
AC Inlet		3-Pole IEC-C14			
SAFETY CHARACTERISTICS					
Safety Approvals		UL60601-1 3 rd Edition ⁽²⁾ CSA-C22.2 No. 60601-1 3 rd Edition EN60601-1 3 rd Edition IEC EN60601-1 3 rd Edition			
EMC		EN60601-1-2 FCC Part 18 EN55011 CE			
					Class B Class B

NOTES

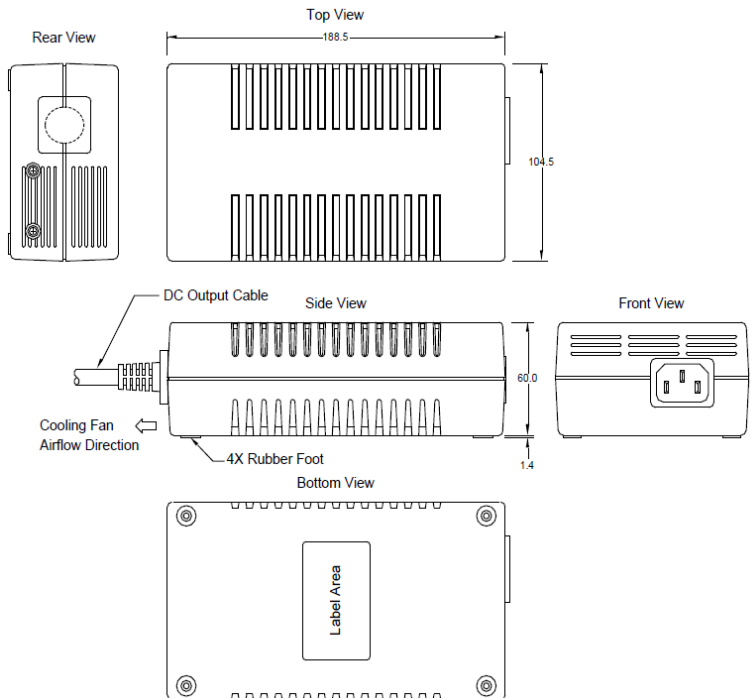
- Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.
- This product is Listed to applicable standards and requirements by UL.

**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES



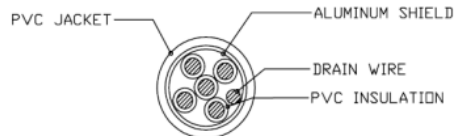
MECHANICAL DRAWINGS



- Notes:
1. AC Inlet IEC320-C14
 2. Plastic Case Color: Black
 3. Tolerance: $\pm 0.5\text{mm}$
 4. Unit:mm

MATCHING CONNECTORS

DC Output Cable: 5C+1, UL2464, 16AWG, VW-1 80°C, 300V



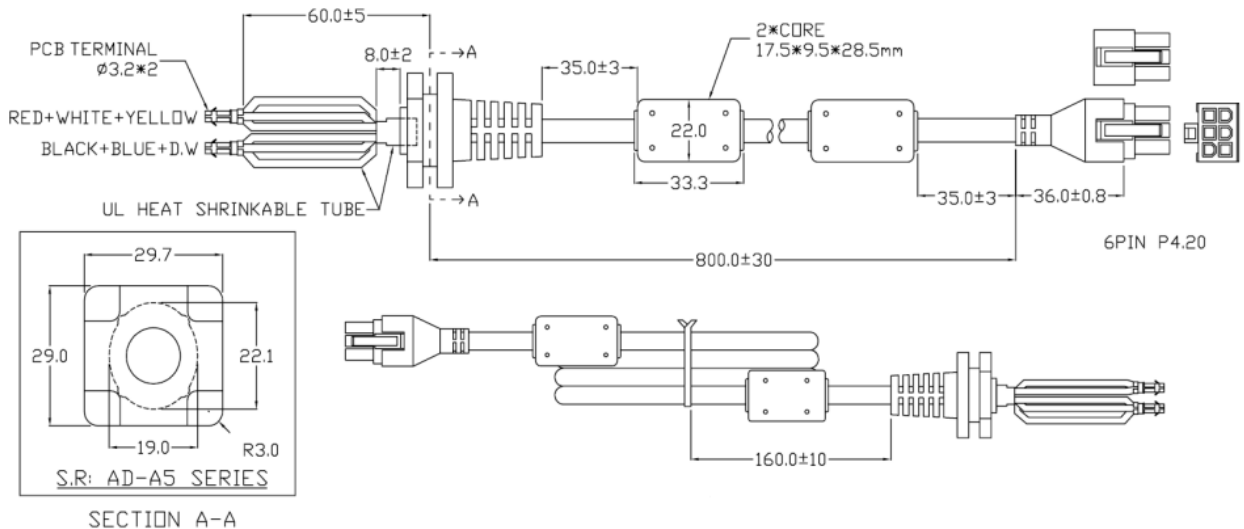
- 1.BLUE (GND)
- 2.BLACK (GND)
- 3.D.W (GND)



- 4.RED (+V)
- 5.WHITE (+V)
- 6.YELLOW (+V)

[2464#16AWG 5C+1(16AWG)]
SECTIONAL DRAWING

FRONT VIEW
6P DIN



COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300
Toll Free: ☎ (888)597-9255
Fax: ☎ (603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

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