

DTAM165 SERIES Up to 165 Watts, Medical AC/DC Desktop Power Supplies



Size: 6.69 x 3.35 x 1.73 inches 170.0 x 85.0 x 44.0 mm

FEATURES

- RoHS Compliant
- PF > 0.9 at 230VAC
- Up to 165 Watts Output Power
- 90~264 VAC Input Voltage Range

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- High Efficiency up to 87%
- MTBF > 100,000 Hours
- IEC-320-C14 AC Inlet

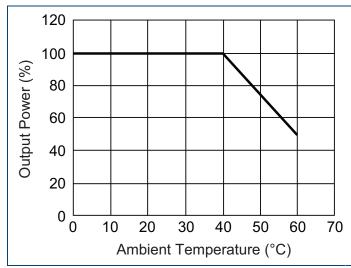
- No Load Power Consumption < 500mW
- Single Outputs Ranging from 12VDC to 48VDC
- Over Voltage, Over Load, and Short Circuit Protection
- CSA-C22.2 601.1-M90, NEMKO EN60601-1, & CB IEC60601-1
 3rd Edition Medical Approvals
- Fully Meets CEC, ERP, EISA Efficiency Level V Requirements
- 100% Burn-in and Hi-pot Tested

DESCRIPTION

The DTAM165 series of medical AC/DC desktop power supplies provides up to 165 Watts of output power in a 6.69" x 3.35" x 1.73" package. This series consists of 12V, 15V, 19V, 24V, 28V, 36V, and 48VDC single output models with a 90-264VAC wide input range and an IEC-320-C14 AC inlet connector. This series also feature a high efficiency up to 87% and a power factor > 0.9 at 230VAC. These supplies are also protected against short circuit, over voltage, and over load conditions. The DTAM165 series has CSA-C22.2 NO.601.1-M90, Nemko EN60601-1, and CB IEC60601-1 3rd edition medical approvals. This series is also CE marked and meets EN55011 Class B, FCC Part 18 Class B, and EN60601-1-2 EMC standards.

MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Regulation	Output Power			
DTAM-160A-1Y12H	-	12 VDC	13.33A	120mVp-p	±5%	160W			
DTAM-160A-1Y15H		15 VDC	10.67A	150mVp-p	±5%	160W			
DTAM-160A-1Y19H		19 VDC	8.42A	190mVp-p	±5%	160W			
DTAM-165A-1Y24H	90 - 264 VAC	24 VDC	6.88A	240mVp-p	±3%	165W			
DTAM-165A-1Y28H		28 VDC	5.89A	280mVp-p	±3%	165W			
DTAM-165A-1Y36H	-	36 VDC	4.58A	360mVp-p	±3%	165W			
DTAM-165A-1Y48H		48 VDC	3.44A	480mVp-p	±3%	165W			

DERATING CURVE-



Convection Cooling:

0 to +60°C derating linearly 2.5% per °C from +41°C to +60°C

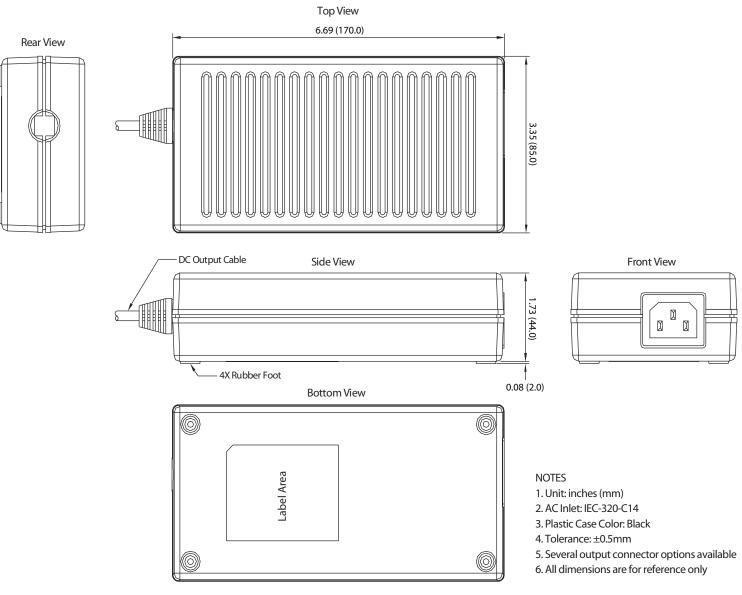
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	We reserve the right to change specifications based on technologica		T		11	
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Uni	
INPUT SPECIFICATIONS						
Input Voltage Range		90		264	VAC	
Input Frequency		47		63	Hz	
Input Current (rms)	90VAC			2.5	A	
	264VAC			1.0		
Inrush Current	115VAC, cold start, 25°C			65	A _{peak}	
	115VAC, cold start, 25°C			130		
No Load Power Consumption				500	mW	
Power Factor Correction	115VAC and full load	0.95				
Tower ractor correction	230VAV and full load	0.90				
OUTPUT SPECIFICATIONS						
Output Voltage			See	Table		
Output Regulation		See Table				
Output Power		See Table				
Output Current		See Table				
Minimum Load		0			%	
Ripple & Noise	Measured at 20MHz limited bandwidth and with 0.1 μ F ceramic and 10 μ F electrolytic capacitors in parallel across the output		1.0		%	
Hold-up Time	115VAC and full load	10			ms	
PROTECTION			1			
Over Voltage Protection		Shutdown and latch off, AC recycle				
Over Load Protection	Automatic recovery	Automatic recovery				
Short Circuit Protection	· · · · · · · · · · · · · · · · · · ·	Automatic recovery				
GENERAL SPECIFICATIONS				,		
Efficiency	115/230VAC and average load		87		%	
ENVIRONMENTAL SPECIFICATION	-					
Operating Temperature	Derating linearly 2.5% per °C from +41°C to +60°C	0		+60	°C	
Storage Temperature Range		-10		+80	°C	
Humidity	Non-condensing	0		90	%	
Cooling		0	Free air o	onvection	70	
MTBF	Full load, 25°C ambient temperature	100,000			hou	
PHYSICAL SPECIFICATIONS		100,000			nou	
			1 73 16	(700c)		
Weight		1.73 lbs (790g)				
Dimensions (L x W x H)	6.69 x 3.35 x 1.73 in (170.0 x 85.0 x 44.0			(44.0 n		
AC Inlet		IEC-320-C14 Several options available				
Output Connector		S	everal opti	ons availabl	e	
SAFETY & EMC						
Safety Approvals	CSA C22.2 601.1-M90: 3rd edition, NEMKO EN	160601-1: 3 rd (edition, CB	IEC60601-1:	3 rd edi	

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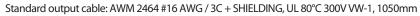
08/14/2013



MECHANICAL DRAWING



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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 ISO9001-2008 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:

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