



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
- 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

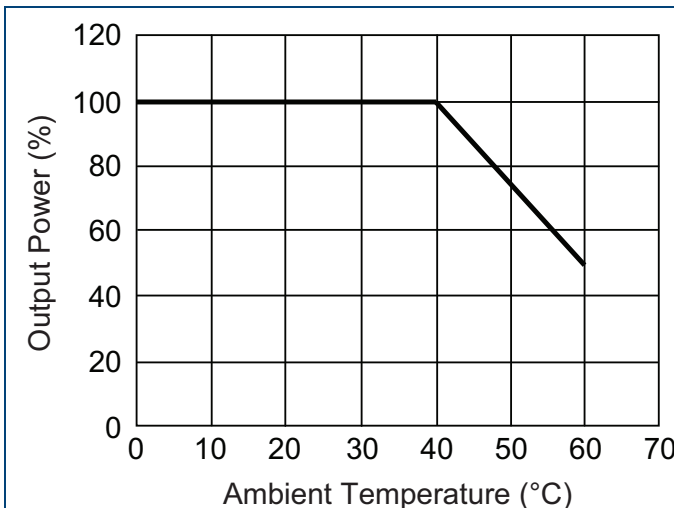
DESCRIPTION

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	90 - 264 VAC	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		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:

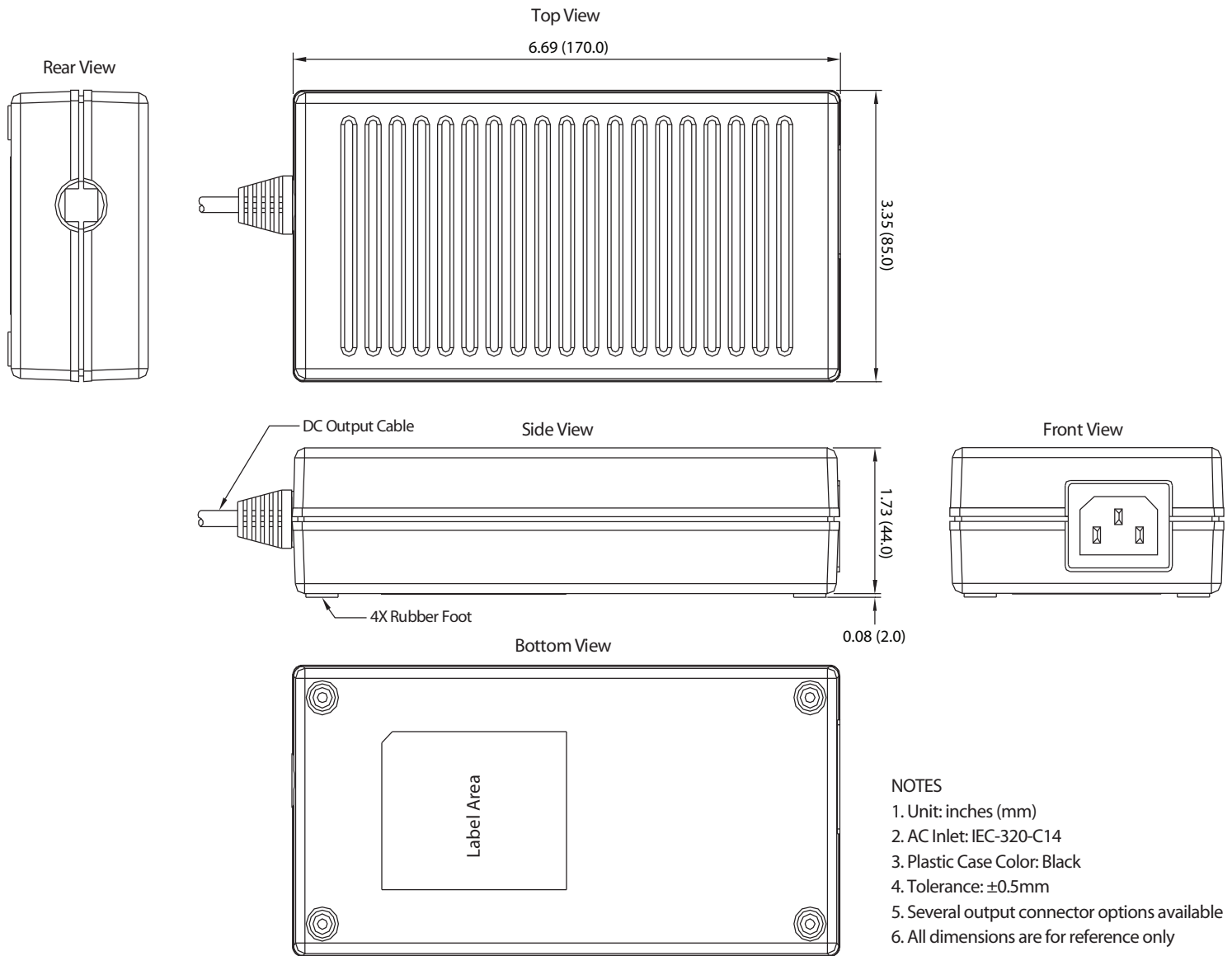
0 to +60°C derating linearly 2.5% per °C from +41°C to +60°C

TECHNICAL SPECIFICATIONS: DTAM165 SERIES

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			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			
	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 0.1µF ceramic and 10µF electrolytic capacitors in parallel across the output		1.0		%
Hold-up Time	115VAC and full load	10			ms
PROTECTION					
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 SPECIFICATIONS					
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		Free air convection			
MTBF	Full load, 25°C ambient temperature	100,000			hours
PHYSICAL SPECIFICATIONS					
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 mm)			
AC Inlet		IEC-320-C14			
Output Connector		Several options available			
SAFETY & EMC					
Safety Approvals	CSA C22.2 601.1-M90: 3 rd edition, NEMKO EN60601-1: 3 rd edition, CB IEC60601-1: 3 rd edition				
EMC Standards	EN60601-1-2, EN55011 Class B, FCC Part 18 Class B, CE				

MECHANICAL DRAWING



- NOTES**
1. Unit: inches (mm)
 2. AC Inlet: IEC-320-C14
 3. Plastic Case Color: Black
 4. Tolerance: ±0.5mm
 5. Several output connector options available
 6. All dimensions are for reference only

Standard output cable: AWM 2464 #16 AWG / 3C + SHIELDING, UL 80°C 300V VW-1, 1050mm

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.

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