



**FEATURES**

- Class I
- 3-Pole IEC-320-C14 AC Inlet
- RoHS Compliant
- 90~264VAC Input Voltage Range
- Up to 110 Watts Output Power
- Single Outputs
- No Load Power Consumption <500mW
- Power Factor: >0.95 at 115VAC and Full Load
- Earth Leakage Current: <266µA at 264VAC
- Power ON LED Indicator
- Over Voltage, Over Load, and Short Circuit Protection
- Meets CEC, ERP, EISA, and Energy Star Level V Requirements
- UL60601-1: 3<sup>rd</sup> Edition Medical Approvals
- Optional Output Connectors Available

**DESCRIPTION**

The DTAM90/110 series of Class I desktop AC/DC power supplies delivers up to 110 Watts of output power in a 6.69" x 2.55" x 1.52" package. This series consists of single output models with an input voltage range of 90-264VAC and a 3-pole IEC-320-C14 AC inlet. These supplies are protected against over voltage, over load, and short circuit conditions. The DTAM90/110 series is RoHS compliant and meets CEC, ERP, EISA, and Energy Star Level V requirements. These units also have UL60601-1: 3<sup>rd</sup> edition medical approvals.

Size: 6.69in x 2.55in x 1.52in (170mm x 64.8mm x 38.5mm)

**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise <sup>(1)</sup>	Output Regulation	Output Power	Avg. Efficiency
DTAM-090A-1Y120G	90~264VAC	12VDC	7.5A	120mVp-p	±5%	90W	>87%
DTAM-090A-1Y135G		13.5VDC	6.67A	135mVp-p	±5%	90W	
DTAM-100A-1Y150G		15VDC	6.67A	150mVp-p	±5%	100W	
DTAM-110A-1Y190G		19VDC	5.8A	190mVp-p	±3%	110W	
DTAM-110A-1Y200G		20VDC	5.5A	200mVp-p	±3%	110W	
DTAM-110A-1Y240G		24VDC	4.6A	240mVp-p	±3%	110W	

**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
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range		90	115/230	264	VAC
Input Frequency		47	50/60	63	Hz
Input Current	@90VAC @264VAC			2 1	A <sub>rms</sub>
Inrush Current	@115VAC, cold start, and 25°C @230VAC, cold start, and 25°C			50 100	
No Load Power Consumption				500	mW
Power Factor	@115VAC and Full Load @230VAC and Full Load	0.95 0.90			-
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage				See Table	
Output Regulation				See Table	
Output Power				See Table	
Output Current				See Table	
Minimum Load		0			mA
Ripple & Noise (20MHz bandwidth)	Measured at 20MHz limited bandwidth with 0.1µF ceramic and 10µF electrolytic capacitors across the output			See Table	
Hold-Up Time	@Full Load, 115VAC		>10		ms
<b>PROTECTION</b>					
Short Circuit Protection				Auto-Recovery	
Over Load Protection				Auto-Recovery	
Over Voltage Protection				Shutdown and Latch Off, AC Recycle	
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Case Temperature	Derate linearly 2.5% per °C from 41 to 60°C	0		60	°C
Storage Temperature		-10		+70	°C
Humidity		10		95	% RH
MTBF	@Full Load and 25°C ambient temperature	100,000			hours

**SPECIFICATIONS**

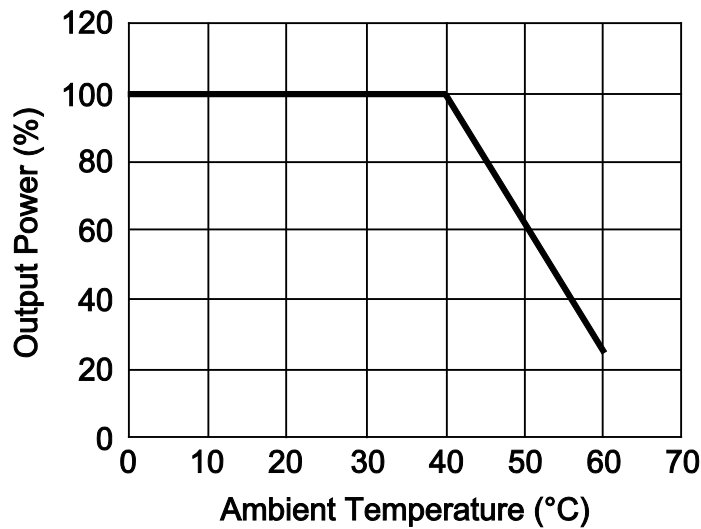
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.  
 We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>GENERAL SPECIFICATIONS</b>					
Efficiency	@average load	87			%
Earth Leakage Current	@264VAC			266	µA
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		1.34lbs (610g)			
Dimensions (L x W x H)		6.69in x 2.55in x 1.52in (170mm x 64.8mm x 38.5mm)			
AC Inlet		3-Pole IEC-320-C14 Class I			
Output Connector		Optional Output Connectors Available			
<b>SAFETY &amp; EMC CHARACTERISTICS</b>					
Safety Approvals		UL/c-UL UL60601-1 TUV EN60601-1 CB IEC60601-1			
EMC Standards		EN60601-1-2 FCC Part 18 EN55011 CE Class B Class B			
Compliance		RoHS Energy Level V CEC ERP EISA			

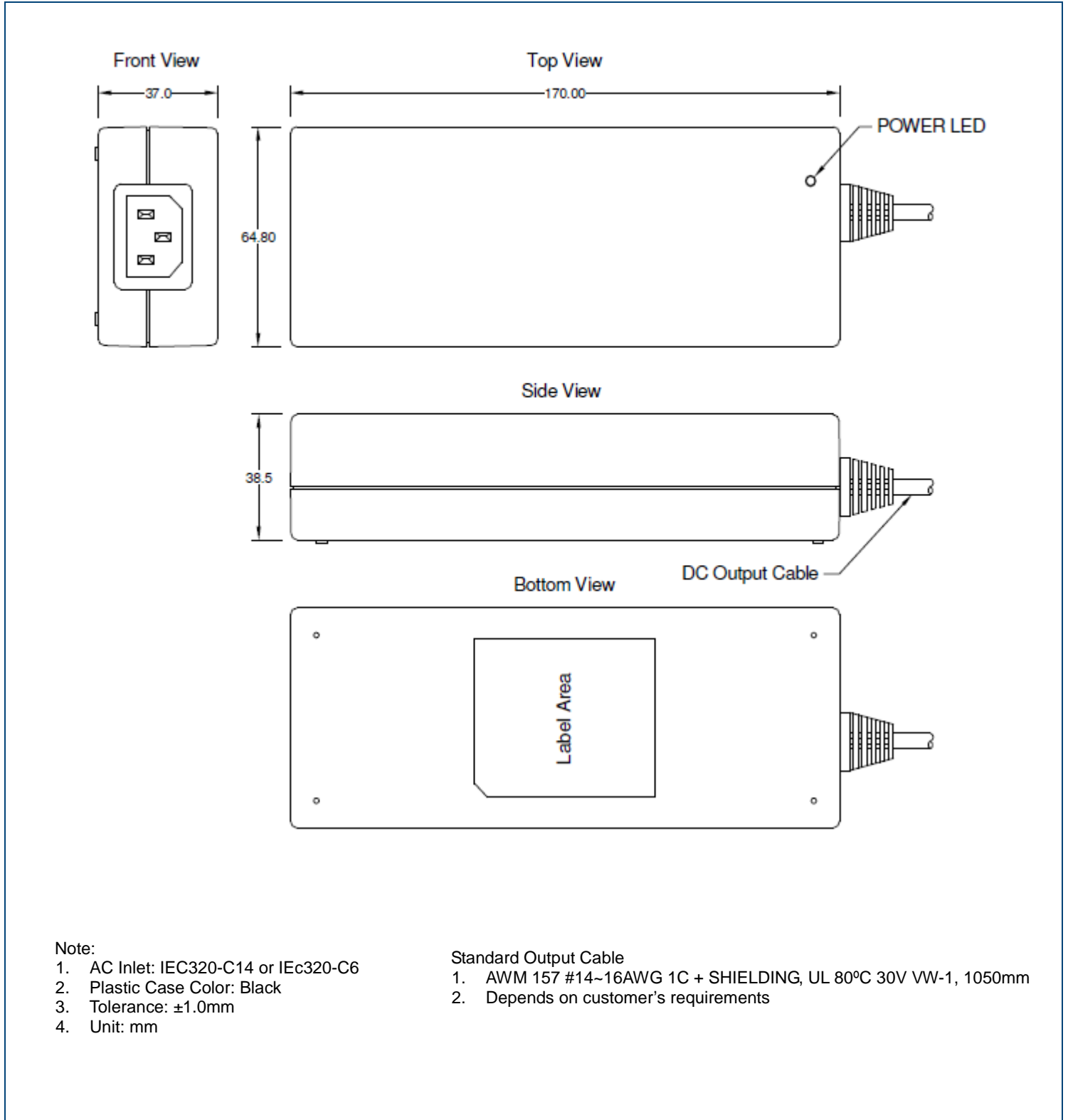
**NOTES**

- (1) Ripple & Noise is measured at oscilloscope 20MHz bandwidth by a 10µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel at output connector.

**DERATING CURVES**



MECHANICAL DRAWINGS



Note:

1. AC Inlet: IEC320-C14 or IEC320-C6
2. Plastic Case Color: Black
3. Tolerance:  $\pm 1.0\text{mm}$
4. Unit: mm

Standard Output Cable

1. AWM 157 #14~16AWG 1C + SHIELDING, UL 80°C 30V VW-1, 1050mm
2. Depends on customer's requirements

---

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:

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