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

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: 3rd 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: 3rd edition medical approvals.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise(1)	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
INPUT SPECIFICATIONS					
Input Voltage Range		90	115/230	264	VAC
Input Frequency		47	50/60	63	Hz
Input Current	@90VAC			2	A_{rms}
	@264VAC			1	
Inrush Current	@115VAC, cold start, and 25ºC			50	
	@230VAC, cold start, and 25ºC			100	
No Load Power Consumption				500	mW
Power Factor	@115VAC and Full Load	0.95			-
	@230VAC 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			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
PROTECTION					
Short Circuit Protection		Auto-Recovery			
Over Load Protection		Auto-Recovery			
Over Voltage Protection		Shutdown and Latch Off, AC Recycle			
ENVIRONMENTAL SPECIFICATIONS					
Operating Case Temperature	Derate linearly 2.5% per ºC from 41 to 60ºC	0		60	ºC
Storage Temperature		-10		+70	ºC
Humidity		10		95	% RH
MTBF	@Full Load and 25ºC 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.

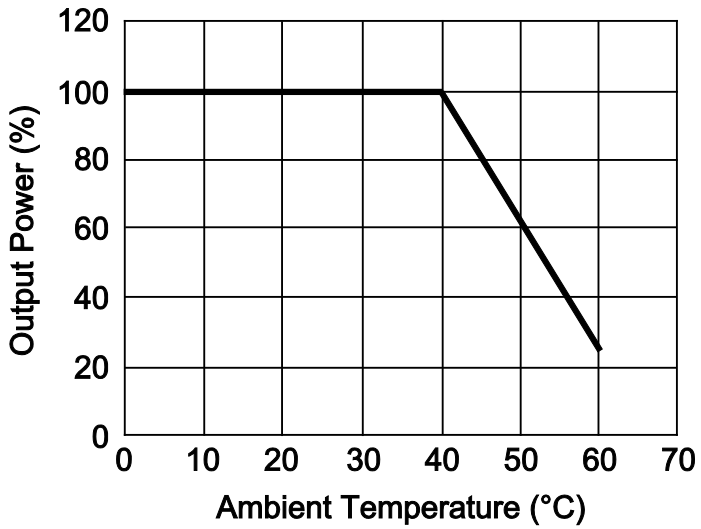
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency	@average load	87			%
Earth Leakage Current	@264VAC			266	µA
PHYSICAL SPECIFICATIONS					
Weight		1.34lbs (610g)			
Dimensions (L x W x H)		6.69in x 2.55in x 1.52in (170mm x 64.8mm x 38.5mm)			
AC Inlet		3-Pole IEC-320-C14 Class I			
Output Connector		Optional Output Connectors Available			
SAFETY & EMC CHARACTERISTICS					
Safety Approvals	UL/c-UL UL60601-1(2) 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

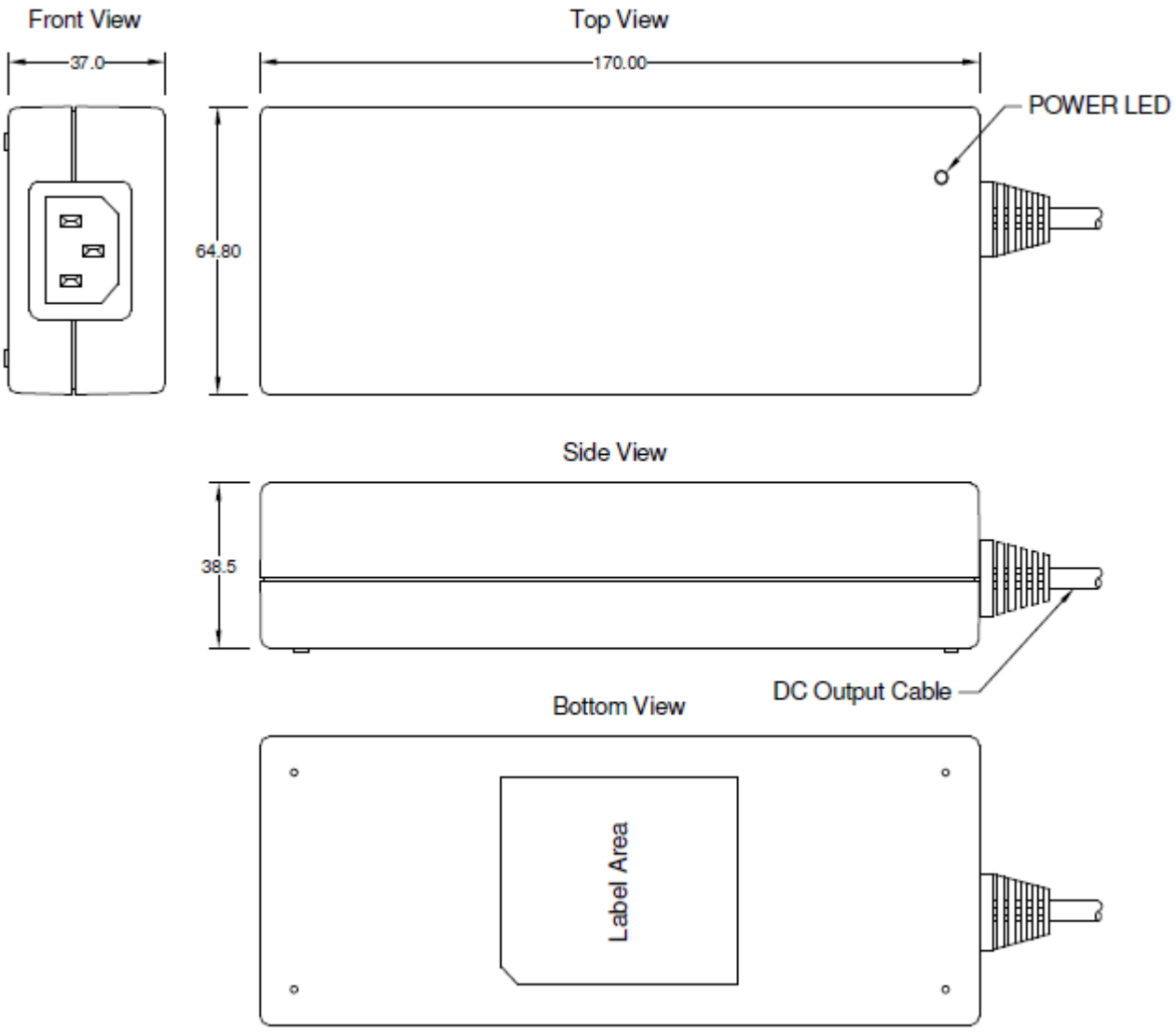
(1) Ripple & Noise is measured at oscilloscope 20MHz bandwidth by a 10µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel at output connector.
(2) This product is Listed to applicable standards and requirements by UL.

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

DERATING CURVES



MECHANICAL DRAWINGS



Note:
1. AC Inlet: IEC320-C14 or IEc320-C6
2. Plastic Case Color: Black
3. Tolerance: ±1.0mm
4. Unit: mm

Standard Output Cable
1. AWM 157 #14~16AWG 1C + SHIELDING, UL 80ºC 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: 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.

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