

Wall Industries, Inc.

## DTMPU60 SERIES

90~264VAC Input Voltage Range  
63 Watts, Single Outputs  
Class I for A & C Types; Class II for B Type  
Medical AC/DC Desktop Power Supplies



IEC-320-C14



IEC-320-C8



IEC-320-C6



Agree to apply for the PSE if order on hand

### FEATURES

- Class I for A & C Types; Class II for B Type
- 100% Burn-in Tested
- RoHS Compliant
- Energy Star 2.0, Efficiency Level V Compliant
- Single Output
- Output Voltages Available from 12VDC to 48VDC
- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- Optional Output Connectors
- Output Voltage Protection (Crowbar Design)
- Input Surge Current, Over Voltage, and Over Load Protection
- Dimensions: 5.17" x 2.18" x 1.46"
- IEC-320-C14, IEC-320-C8, and IEC-320-C6 Input Inlets Available
- Meets FCC Part-18 Class B and CISPR-11 EN55011 Class B Emission Limits
- UL/cUL 60601-1: 2<sup>nd</sup> Edition and TUV/T-mark EN60601-1: 2<sup>nd</sup> Edition Medical Approvals

### DESCRIPTION

The DTMPU60 series of medical AC/DC desktop power supplies provides 63 Watts of continuous output power in a 5.17" x 2.18" x 1.46" package. This series consists of single output models with a 90~264VAC input voltage range. These supplies also have input surge current, over voltage, and over load protection. All units are UL94V-1, RoHS, and Energy Star 2.0 Level V compliant. All models meet FCC Part-18 class B and CISPR-11 EN55011 class B emission limits and have UL/cUL (UL 60601-1: 2<sup>nd</sup> Edition) and TUV/T-mark (EN 60601-1: 2<sup>nd</sup> Edition) medical approvals. These units also meet new CE requirements and are well suited for use in hospital equipment as well as many other applications. The DTMPU60 series has three types of input inlets available: IEC-320-C14 (A Type), IEC-320-C8 (B Type), and IEC-320-C6 (C Type). Optional output connectors are also available for this series. Please call factory for ordering details.

<b>SPECIFICATIONS: DTMPU60 Series</b>						
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	Nom	Max	Unit
<b>INPUT SPECIFICATIONS</b>						
Operating Voltage Range		Operating Input Voltage Range	90		264	VAC
		Safety Approvals Input Voltage Range	100		240	
Input Frequency			47		63	Hz
Input Current	Low Line	Io = Full Load, Vin = 115VAC			1.62	A
	High Line	Io = Full Load, Vin = 230VAC			0.72	A
Inrush Current	Low Line	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		26	30	A
	High Line	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		43	47	A
No Load Power Consumption		No Load, Vin = 240VAC	0.3	0.4	0.5	W
<b>OUTPUT SPECIFICATIONS</b>						
Output Voltage			See Table			
Load Regulation		Vin = 230VAC			5	%
Line Regulation		Io = Full Load			1	%
Output Power		Vin = 90 to 264VAC	0		63	W
Output Current Range			See Table			
Ripple & Noise (peak to peak)		Full Load, Vin = 100VAC			1	%
Transient Response Time		Io = Full Load to Half Load, Vin = 100VAC			4	ms
Hold-Up Time		Io = Full Load, Vin = 110VAC	16			ms
Start-Up Time		Io = Full Load, Vin = 100VAC	0.3	1	2	s
Temperature Coefficient			-0.04		+0.04	%/°C
<b>PROTECTION</b>						
Input Surge Current Protection			yes			
Over Voltage Protection			112		132	%
Over Current Protection			110		150	%
<b>GENERAL SPECIFICATIONS</b>						
Efficiency		Io = Full Load, Vin = 230VAC	87		92	%
Dielectric Withstanding Voltage		Primary to Secondary	A, B, and C types	5656		VDC
		Primary to Ground	A and C types	2828		
Isolation Resistance		Test Voltage = 500VDC	50			MΩ
Safety Ground Leakage Current		Io = Full Load, Vin = 240VAC			0.1	mA
<b>ENVIRONMENTAL SPECIFICATIONS</b>						
Operating Temperature		Derate linearly from 100% Load at 50°C to 50% load at 70°C	0	50	70	°C
Storage Temperature			-40		85	°C
Operating Humidity			0		95	%
Storage Humidity			0		75	%
MTBF		Operating Temperature at 25°C, calculated per MIL-HDBK-217F	100,000 hours			
<b>PHYSICAL SPECIFICATIONS</b>						
Weight		A, B, and C types	Approx. 11.64~13.40oz (330~380g)			
Dimensions (L x W x H)		A, B, and C types	5.17 x 2.18 x 1.46 inches (131.3 x 55.4 x 37.0 mm)			
AC Inlets		A Type	IEC-320-C14			
		B Type	IEC-320-C8			
		C Type	IEC-320-C6			
<b>SAFETY</b>						
Safety Approvals		UL/cUL (UL60601-1: 2 <sup>nd</sup> Edition), TUV/T-mark (EN 60601-1: 2 <sup>nd</sup> Edition), CE				
EMI Requirements for CISPR-11		Vin = 220VAC	B			Class
EMI Requirements for FCC PART-18		Vin = 110VAC	B			Class

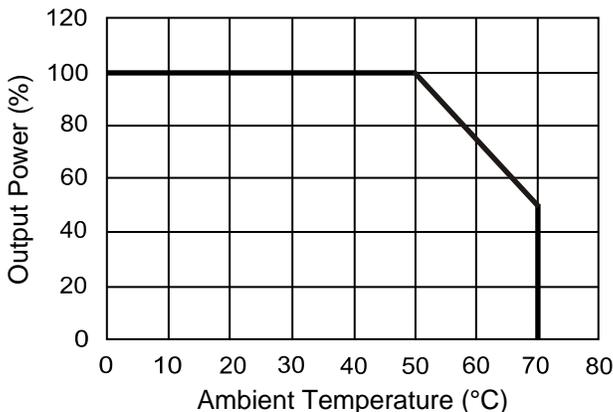
**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation <sup>(2)</sup>	Output Power	Class	AC Inlet
*DTMPU60A-105	90 ~ 264 VAC	12 VDC	5.25 A	5%	63W	Class I	IEC-320-C14
*DTMPU60A-106	90 ~ 264 VAC	15 VDC	4.20 A	5%	63W		
*DTMPU60A-107	90 ~ 264 VAC	18 VDC	3.50 A	5%	63W		
*DTMPU60A-108	90 ~ 264 VAC	24 VDC	2.62 A	3%	63W		
*DTMPU60A-109	90 ~ 264 VAC	30 VDC	2.10 A	3%	63W		
DTMPU60A-110	90 ~ 264 VAC	36 VDC	1.75 A	3%	63W		
DTMPU60A-111	90 ~ 264 VAC	48 VDC	1.31 A	3%	63W		
DTMPU60B-105	90 ~ 264 VAC	12 VDC	5.25 A	5%	63W	Class II	IEC-320-C8
DTMPU60B-106	90 ~ 264 VAC	15 VDC	4.20 A	5%	63W		
*DTMPU60B-107	90 ~ 264 VAC	18 VDC	3.50 A	5%	63W		
*DTMPU60B-108	90 ~ 264 VAC	24 VDC	2.62 A	3%	63W		
*DTMPU60B-109	90 ~ 264 VAC	30 VDC	2.10 A	3%	63W		
DTMPU60B-110	90 ~ 264 VAC	36 VDC	1.75 A	3%	63W		
DTMPU60C-105	90 ~ 264 VAC	12 VDC	5.25 A	5%	63W		
*DTMPU60C-106	90 ~ 264 VAC	15 VDC	4.20 A	5%	63W		
*DTMPU60C-107	90 ~ 264 VAC	18 VDC	3.50 A	5%	63W		
*DTMPU60C-108	90 ~ 264 VAC	24 VDC	2.62 A	3%	63W		
*DTMPU60C-109	90 ~ 264 VAC	30 VDC	2.10 A	3%	63W		
DTMPU60C-110	90 ~ 264 VAC	36 VDC	1.75 A	3%	63W		
DTMPU60C-111	90 ~ 264 VAC	48 VDC	1.31 A	3%	63W		

**NOTES**

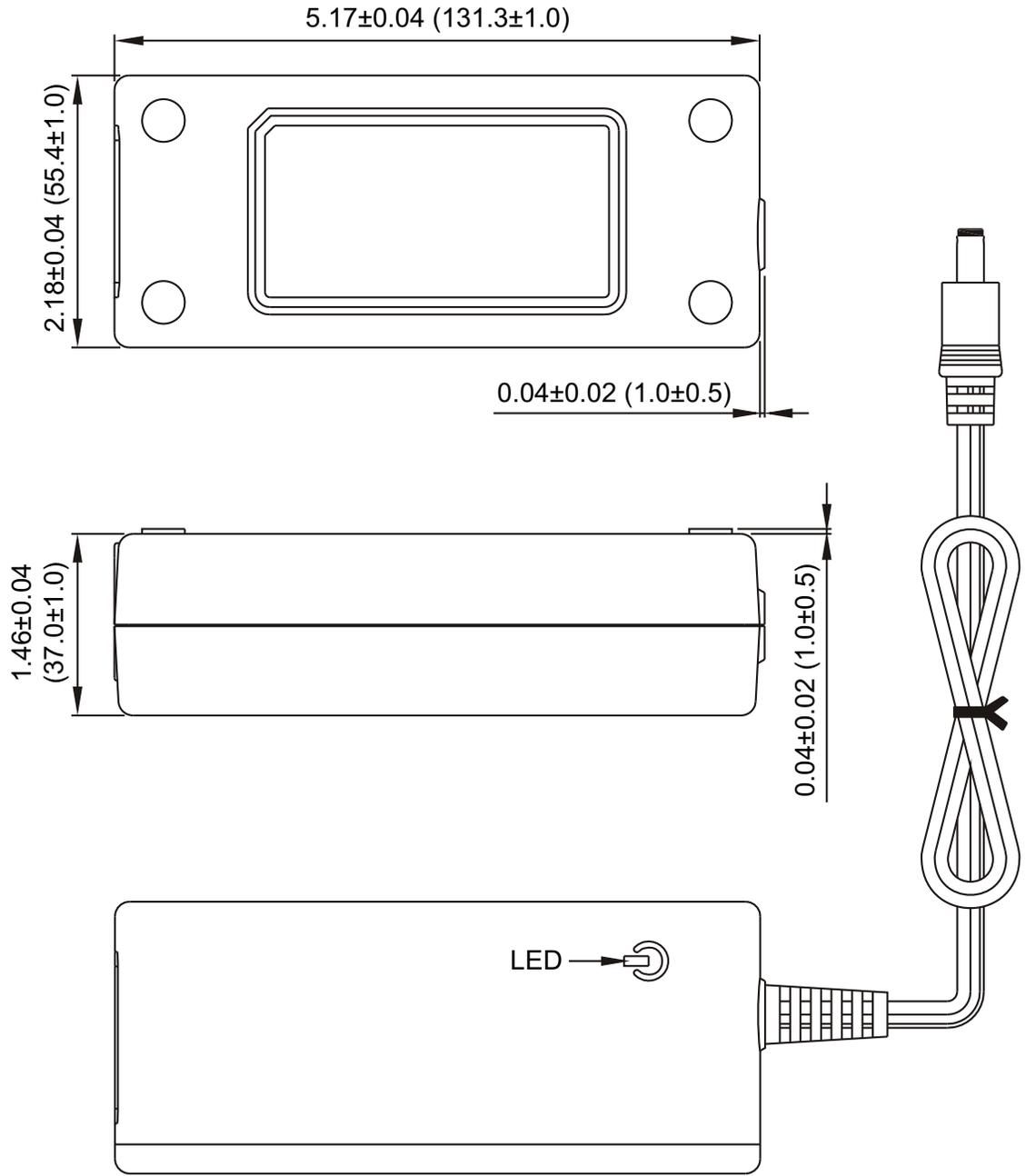
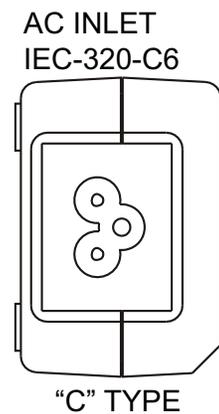
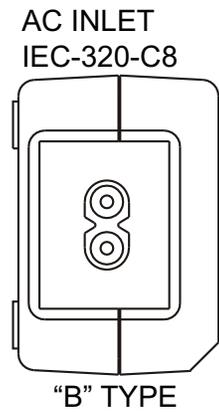
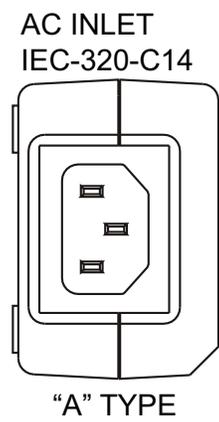
1. The “\*” next to the model number means PSE Approval.
2. Models DTMPU60-105~107 needs to use AWG#16/2C/4FT output cable in order to meet the total regulation specified.  
Models DTMPU60-108~110 needs to use AWG#18/2C/6FT output cable in order to meet the total regulation specified.  
The regulation and efficiency will change if a different output cable is used.
3. Optional output connectors are available. Please call factory for ordering details.

**DERATING CURVE**



**MECHANICAL DRAWING**

Unit: inches (mm)



## 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:

<u>Phone:</u>	☎ (603)778-2300
<u>Toll Free:</u>	☎ (888)597-9255
<u>Fax:</u>	☎ (603)778-9797
<u>E-mail:</u>	<a href="mailto:sales@wallindustries.com">sales@wallindustries.com</a>
<u>Web:</u>	<a href="http://www.wallindustries.com">www.wallindustries.com</a>
<u>Address:</u>	5 Watson Brook Rd. Exeter, NH 03833