

DATASHEET Rev. A

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



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: 2nd Edition and TUV/T-mark EN60601-1: 2nd Edition Medical Approvals
- 3 Year Warranty

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: 2nd Edition) and TUV/T-mark (EN 60601-1: 2nd 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.

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	UI.	e reserve the right to change specificat	tions based on technological advan-	265					
SPECIFICATIO			NDITIONS	Min	Nom	Max	Unit		
INPUT SPECIF									
Operating Voltage Range Input Frequency		Operating Input Voltage Range	90		264				
		Safety Approvals Input Voltage I	100		240	VAC			
			47		63	Hz			
	Low Line	Io = Full Load, Vin = 115VAC			1.62	Α			
Input Current	High Line	Io = Full Load, $Vin = 230VAC$			0.72	Α			
	Low Line	, ,	Io Full Load, 25°C, Cool Start, Vin = 115VAC				A		
Inrush Current	High Line	$Io = Full Load, 25^{\circ}C, Cool Start,$		26 43	30 47	A			
No Load Power Consumption		No Load, Vin = 240VAC	0.3	0.4	0.5	W			
OUTPUT SPEC		The Boud, The 2 to the	No Load, VIII - 240 VAC			0.5			
Output Voltage					See '	Table			
Load Regulation		Vin = 230VAC		500	5	%			
Line Regulation		Io = Full Load				1	%		
Output Power		Vin = 90 to 264 VAC	0		63	W			
1	ge		V III - 70 10 204 V AC			Table	vv		
Output Current Range Ripple & Noise (peak to peak)		Full Load, Vin = 100VAC		500	1	%			
Transient Response	· /		Io = Full Load to Half Load, Vin = 100VAC			4	ms		
Hold-Up Time	Time	Io = Full Load, Vin = 110VAC	16		4				
Start-Up Time		· · · · · · · · · · · · · · · · · · ·	0.3	1	2	ms			
Temperature Coeffi	aiant	IO – Full Load, VIII – 100 VAC	Io = Full Load, Vin = 100VAC			2 + 0.04	s %/°C		
PROTECTION	cient			-0.04		+0.04	-70/ C		
	Ductosticu			1					
Input Surge Current				112	У	es	0/		
Over Voltage Protec				112		132	%		
Over Current Protec				110		150	%		
GENERAL SPEC	IFICATIONS			07	1	02	0/		
Efficiency		Io = Full Load, Vin = 230VAC		87		92	%		
Dielectric Withstan	ding 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 Leak	-	Io = Full Load, Vin = 240VAC				0.1	mA		
ENVIRONMEN				1	T				
Operating Temperature		Derate linearly from 100% Load	0	50	70	°C			
Storage Temperature			-40		85	°C			
Operating Humidity			0		95	%			
Storage Humidity						75	%		
MTBF		Operating Temperature at 25°C,	Operating Temperature at 25°C, calculated per MIL-HDBK-217F			0 hours			
PHYSICAL SPEC	CIFICATIONS			-					
Weight A, B, and C types				Approx. 11.64~13.40oz (330~380g)					
Dimensions (L x W	x H)	A, B, and C types	A, B, and C types			5.17 x 2.18 x 1.46 inches (131.3 x 55.4 x 37.0 mm)			
		А Туре	IEC-320-C14						
AC Inlets		В Туре	В Туре			IEC-320-C8			
		СТуре	СТуре			IEC-320-C6			
Warranty						3 years			
SAFETY									
Safety Approvals		UL/cl	UL (UL60601-1: 2 nd Edition), TUV	//T-mark (EN 60601	-1: 2 nd Edit	tion). C		
	for CISPR-11	Vin = 220VAC	B			Class			
EMI Reduitements									

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MODEL SELECTION TABLE							
Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation ⁽²⁾	Output Power	Class	AC Inlet
*DTMPU60A-105	90 ~ 264 VAC	12 VDC	5.25 A	5%	63W		
*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	Class I	IEC-320-C14
*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		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	Class II	
*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	Class I	IEC-320-C6
*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		

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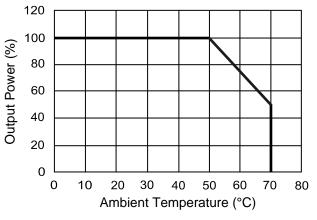
NOTES

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



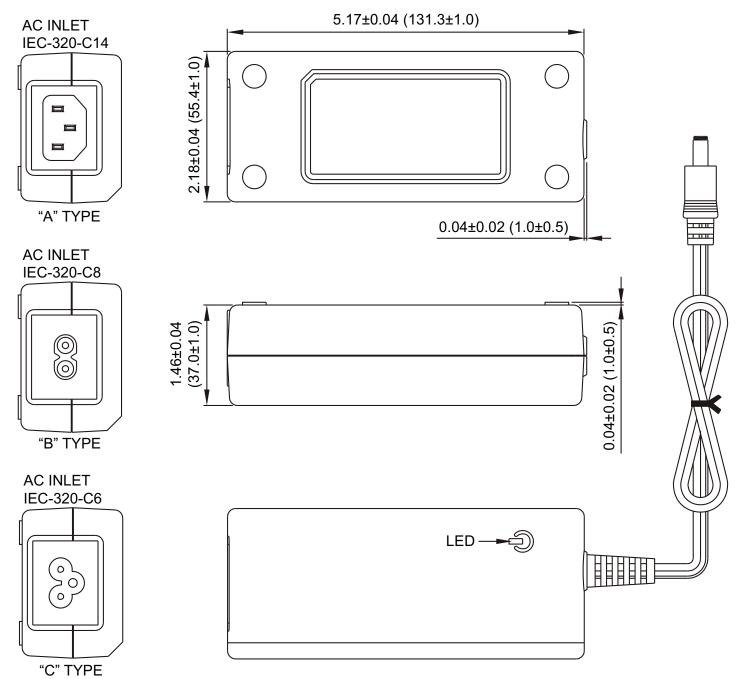
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MECHANICAL DRAWING

Unit: inches (mm)



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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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