



FEATURES

- Class I for A & C Types; Class II for B Type
- RoHS Compliant
- Energy Star 2.0, Efficiency Level V Compliant
- Single Outputs
- Output Voltages Available from 5VDC to 36VDC
- Wide Input Operate Voltage Range: 80~275VAC, 47~63Hz
- Short Circuit, Over Voltage, and Over Load Protection

- Efficiency up to 85%
- High ESD Immunity
- IEC-320-C14, IEC-320-C8, and IEC-320-C6 Input Inlets Available
- Meets FCC Part-18 Class B, CISPR-11, and EN55022 Class B Emission Limits
- IEC-60601-1 Edition 3.1, ES60601-1:2005 (R2012), CSAC22.2 NO.60601-1:14, EN60601-1:2006/A1:2013 Safety Approvals

APPLICATIONS

- Patient Monitor
- Blood Pressure System
- Portable Medical Device
- ECG, EEG Machine
- Medical Tablet

DESCRIPTION

The DTMPU16 series of medical AC/DC desktop power supplies provides up to 15 Watts of continuous output power. This series consists of single output models with a 80~275VAC input voltage range. All units are UL94V-1, RoHS, and Energy Star 2.0 Level V compliant. All models meet FCC Part-18 class B, CISPR-11, and EN55022 class B emission limits and have IEC-60601-1 Edition 3.1, ES60601-1:2005 (R2012), CSAC22.2 NO.60601-1:14, EN60601-1:2006/A1:2013 safety approvals. These units also meet new CE requirements and have been 100% burn-in tested. The DTMPU16 series has three types of input inlets available: IEC-320-C14 (A Type), IEC-320-C8 (B Type), and IEC-320-C6 (C Type).

MODEL SELECTION TABLE												
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise	Total Regulation	Output Power	Efficiency				
			Min Load	Max Load	Tripple & Noise	Total Regulation	Output I owei	Linciency				
DTMPU16X-102	80~275VAC	5~5.99VDC	2.16A	2.60A	50mVp-p	±5%	13W	75%				
DTMPU16X-103		6~8VDC	1.62A	2.16A	60mVp-p	±5%	13W	78%				
DTMPU16X-104		8~11VDC	1.36A	1.87A	80mVp-p	±5%	15W	81%				
DTMPU16X-105		11~13VDC	1.15A	1.36A	100mVp-p	±5%	15W	81%				
DTMPU16X-106		13~16VDC	0.93A	1.15A	100mVp-p	±5%	15W	81%				
DTMPU16X-107		16~21VDC	0.71A	0.93A	100mVp-p	±5%	15W	81%				
DTMPU16X-108		21~27VDC	0.55A	0.71A	100mVp-p	±3%	15W	82%				
DTMPU16X-109		27~33VDC	0.45A	0.55A	100mVp-p	±3%	15W	84%				
DTMPU16X-110		33~36VDC	0.41A	0.45A	100mVp-p	±3%	15W	85%				



SPECIFICATIONS									
All specification	ons are based on 25°C, Nominal Input Voltage, We reserve the right to change specification	and Maximum Output Current uns based on technological adva	inless ot nces.	herwise note	ed.				
SPECIFICATION	TEST CONDITIC	NS	Min	Тур	Max	Unit			
INPUT SPECIFICATIONS									
Input Voltage Range	Operating Input Voltage Range		80		275	VAC			
	Safety Approval Input Voltage Range		100		240				
Input Frequency			47		63	Hz			
Input Current	Low Line, Full Load, 100VAC		0.29	0.32		Α			
· -	High Line, Full Load, 240VAC		0.17	0.19					
Inrush Current	Low Line, Full Load, 25°C, Cool Start, Vin-				23				
No Load Dower Consumption	High Line, Full Load, 25°C, Cool Start, Vin	=240VAC		0.3	55	W			
No Load Power Consumption Safety Ground Leakage Current Vin=264VAC/63Hz, A & C Types				0.3	0.15	mA			
OUTPUT SPECIFICATIONS	Vin=264VAC/63Hz, A & C Types				0.15	ША			
Output Voltage				See 7	Table				
Line Regulation ⁽⁴⁾					1	%			
Load Regulation ⁽⁵⁾	1 dii 20dd, viii–100 1200/AO 01 200 2400	-10	0.5	See 7	гаble	70			
Output Power					See Table				
Output Current					See Table				
Ripple & Noise ⁽⁶⁾					See Table				
Transient Response Time	lo=Full Load to Half Load, Vin=110VAC				4	ms			
Start-Up Time	Full Load, Vin=100~240VAC				2	S			
Hold Up Time ⁽⁷⁾	,			10		mS			
Temperature Coefficient	All Conditions				±0.04	%/°C			
PROTECTION			<u> </u>						
Short Circuit Protection									
Over Load Protection	Recovers automatically after fault condition	n is removed	110		150	%			
Over Voltage Protection			112		132	%			
ENVIRONMENTAL SPECIFICATI									
Operating Temperature	Derates linearly from 100% Load at 50°C t	o 50% load at 70°C	-10		70	°C			
Storage Temperature	10~95%RH		-40		85	°C			
Operating Humidity			0		95	%RH			
Storage Humidity	A. 11. 0		0		95	%RH			
Operating Altitude	All Conditions				3000	m			
Vibration	10~500Hz, 10min./1cycle, 60min. each ald		20.000		5	G			
MTBF GENERAL SPECIFICATIONS		20	00,000			Hours			
Efficiency	Full Load, Vin=230VAC			See 7	Table .				
Linciency	Primary to Secondary, Limit current <10mA, All Types				4000	VAC			
Dielectric Withstanding Voltage	Primary to PE, Limit Current <10mA, A & C				1500	VAC			
Insulation Resistance	A & C Types	Турос	50		1000	ΜΩ			
PHYSICAL SPECIFICATIONS	nta o Typos					17122			
Weight		Approx. 6oz (170g)							
o.g				4.11in x 1.6					
	A Type			(104.4mm x 42.0mm x 31.0mm)					
Dimensions (L x W x H)	B & C Types			3.90in x 1.65in x 1.22in					
				(99mm x 42mm x 31mm)					
Cooling	Free Air Convection								
Flammability Rating				UL94	4V-1				
SAFETY CHARACTERISTICS									
Safety Approvals	IEC-60601-1 Edition 3.1, ES60601-		O.6060	1-1:14, EN6	0601-1:200	6/A1:2013			
EMC Emission		011 (CISPR), EN60601-1-2				Class B			
Protection Class	A & C Types					Class I			
1 101001011 01000	В Туре			Do		ed, Class II			
Surge Voltage	IEC-61000-4-2				1	kV			
5- · -·g-	Contac	Discharge			2				



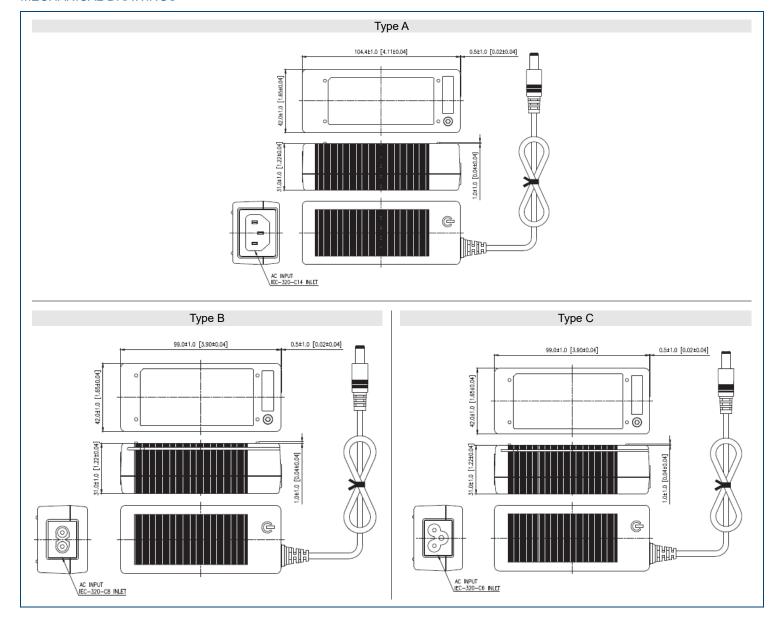
NOTES

- 1. "X" in model number indicates AC-Inlet option. "X" can be "A" for IEC-320-C14, "B" for IEC-320-C8, or "C" for IEC-320-C6.
- 2. Output can provide up to peak load when power supply starts up. Staying in more than rated load continually is not allowed.
- 3. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- 4. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 5. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- 6. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- 7. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
- DTMPU16X-102~103 required to use AWG #16 4FT output cable.
 DTMPU16X-105~110 required to use AWG #18/4FT output cable.
 Regulation and efficiency will be changed by modified output cable.
 Optional output connectors are available-please contact factory for more information.

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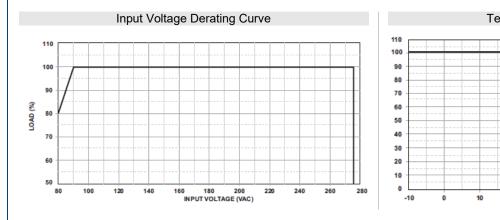
*Due to advances in technology, specifications subject to change without notice.

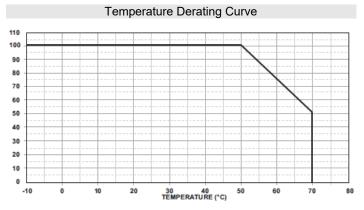
MECHANICAL DRAWINGS





DERATING CURVES





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.

Contact Wall Industries for further information:

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