

Rev A



- Monitor
- Set-Top Box
- AV Equipment

among others. It consists of single output models in which three AC input inlets are available: IEC-320-C14, C8, and C6, and two types of cords are available, both 2 prong and 3 prong. This series is both Energy Efficiency Level VI and RoHS compliant and has UL/cUL(UL 60950-1: 2nd Edition) and TUV/GS (EN 60950-1: 2nd Edition) safety approvals. Please call factory for order details.

MODEL SELECTION TABLE								
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Dipple 9 Naisa ⁽⁷⁾	No Load	Output Dowor	Efficiency
			Min.	Max.	Ripple & Noise	Power Consumption	Output Power	Enciency
DTEPU16x-102	90~264VAC	5~5.99VDC	2.00	2.50	100mVp-p		12W	80%
DTEPU16x-103		6.5~8VDC	1.50	1.84	100mVp-p		12W	83%
DTEPU16x-104		8~11VDC	1.22	1.68	100mVp-p		13.5W	83.6%
DTEPU16x-105		11~13VDC	1.15	1.36	100mVp-p	0.1W	15W	81.13%
DTEPU16x-106		13~16VDC	0.94	1.15	100mVp-p		15W	81.13%
DTEPU16x-107		16~21VDC	0.72	0.94	100mVp-p		15W	81.13%
DTEPU16x-108		21~27VDC	0.55	0.72	100mVp-p		15W	81.13%
DTEPU16x-109		27~33VDC	0.45	0.55	100mVp-p		15W	85%
DTEPU16x-110		33~40VDC	0.37	0.45	100mVp-p		15W	86%
DTEPU16x-111		40~48VDC	0.31	0.37	100mVp-p		15W	86%

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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 Max Unit Тур INPUT SPECIFICATIONS Safety Approvals Input Voltage Range 100 240 Input Voltage Range VAC **Operating Voltage Range** 90 264 Input Frequency Sine Wave 47 Hz 63 Low Line Io=Full Load, Vin=100VAC 0.4 Input Current High Line Io=Full Load, Vin=240VAC 0.20 Io=Full Load, 25°C, Cool Start, Vin=115VAC Low Line 35 45 Inrush Current High Line Io=Full Load, 25°C, Cool Start, Vin=230VAC 70 90

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OUTPUT SPECIFICATIONS					
Output Voltage			See	Table	
Line Regulation ⁽⁵⁾	Io=Full Load	0.5		1	%
Load Regulation ⁽⁶⁾	Vin=230VAC	4		5	%
Output Power			See	Table	
Output Current			See	Table	
Ripple & Noise (20MHz BW) ⁽⁷⁾			100		mVp-p
Transient Response Time	Full Load, Vin=100VAC			4	mS
Hold-Up Time ⁽⁸⁾	Io=Full Load, Vin=110VAC	8			mS
Start-Up Time	Io=Full Load, Vin=100VAC			3	S
Temperature Coefficient	All Outputs		±0.04		%/ºC
PROTECTION					

Short Circuit Protection			ŀ	Automatic Recovery		
Over Load Protection	None, but output is protected against short circuit conditions.					
ENVIRONMENTAL SPECIFIC	ATIONS					
Operating Temperature	Derate linearly from 100% loa	0	70	°C		
Storage Temperature	10~95%RH		-40	85	°C	
Operating Humidity Non-Condensing			0	95	%	
Storage Humidity		0	95	%		
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV	
	Contact Discharge, IEC61000)-4-2		6		
Operating Altitude (Elevation)	All Conditions			3000	Μ	
Vibration	10~500Hz, 10min./1cycle, 60r	min. each along X,Y,Z axes		5	Н	
Surao Voltago	Line-Neutral			1	k)/	
Suige vollage	Line-PE & Neutral-PE			1	ĸv	
Cooling			Free Air Convection			
Flammability Rating			UL94V-1			
MTBF	Operating temperature at 25%	C, Calculated per MIL-HDBK-217F	100,000		Hrs	
GENERAL SPECIFICATIONS						
Efficiency	Rated load and nominal line		See Table			
Dielectric Withstanding	Type A, Type C, Type E	Primary to PE		2594		
Voltage	All Outputs	Primary to Secondary		4242	VDC	
Safety Ground Leakage	$\sqrt{10}$	Type A, Type C, Type E		0.75	m۸	
Current	VIII=240VAC/00H2	Type B, Type D		0.25	ША	
PHYSICAL SPECIFICATIONS						
Weight				5.82oz (165g)		
Dimensions (L x W x H)		3.58in x 1.50in x 1.42in				
			(91mm x 38.0mm x 36.0mm)			
SAFETY						
	All Outputs		UL/c-UL (UL 60950-1: 2 nd Edition			
	Type A, Type C, Type E		TUV/GS (EN 60950-1: 2 nd Edition			
	DTEPU16A		۵. ۵. د.	FCA®GELPS	RoHS2 2011/65/EU	
Safety Approvals ⁽²⁾	DTEPU16B		C	ECBFC A ll	S D RoHS2 2011/65/EU	
	DTEPU16C		۰®» (6 CB	FCA®®GELP	S V RoHS2 2011/65/EU	
	DTEPU16D		C	€CBF©≜℗ℾ	S D RoHS2	
	DTEPU16E		cŲL)us 🤇	ECBFC A CL		
	Type A, Type C, Type E		Class I			
Protection Classes	Type B, Type D		Double Insulated, Class II			

Compliance to EN55022 (CISPR)

EMC Emission

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NOTES

Rev A

- (1) The "x" in the model number represents options for models. When "A"=IEC-320-C14, "B"=IEC-320-C8, "C"=IEC-320-C6, "D"=2-Prong Power Cord, and "E"=3-Prong Power Cord DTEPU16x-102~107 are required to use AWG#18/4FT output cable.
 - DTEPU16x-108~111 are required to use AWG#20/4FT output cable. Electrical characteristics will be changed by modified output cable.
- (2) DTEPU16A-104, 105, 108 are available on NRCan mark. DTEPU16C-104, 105, 108 are available on NRCan mark. DTEPU16E-104, 105, 108 are available on NRCan mark.

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- (3) Output can provide up to peak load when the power supply starts up. Staying in more than rated load continuously is not allowed.
- (4) In 60% rated load condition, each output is checked to be within voltage accuracy.
- (5) Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- (6) Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- (7) Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47µF capacitor at rated load and nominal line.
- (8) 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.

DERATING CURVES -



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MECHANICAL DRAWINGS



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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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