



Size: 4.65in x 1.85in x 1.19in (118.0mm x 47.0mm x 30.3mm)

### **OPTIONS**

- Output Connectors
- Output Voltage

# **APPLICATIONS**

- POS System
- AV Equipment
- Industrial PC
- Note PC
- Charger
- LED Lighting

### **FEATURES**

- Wide Operating Input Voltage 90~264VAC, 47-63Hz
   Class I
- IEC-320-C14 Input Inlet
- Optional Output Connectors Available
- Single Output
- Level VI Compliant
- RoHS Compliant
- 1 Year Warranty

- Useful in Variety of Applications
- Over Current and Short Circuit Protection
- UL/c-UL (UL 60950-1:2<sup>nd</sup> Edition) and TUV/GS (EN 60950-1:2<sup>nd</sup> Edition)
- High Efficiency of 88%
- · Cooling by Free Air Convection

## DESCRIPTION

The DTEPU60A series of AC DC desktop power supplies offers up to 60 watts of output power in a 4.65" x 1.85" x 1.19" package. This series offers single output models with output voltages ranging from 12~48VDC and a wide input voltage range of 90~264VAC. Each model is both Energy Efficiency Level VI and RoHS compliant and has high efficiency of 88%. Each model is also protected against over current and short circuit conditions and has UL/c-UL (UL 60950-1:2nd Edition) and TUV/GS (EN60950-1:2nd Edition) safety approvals.

MODEL SELECTION TABLE											
Model Number <sup>(1)</sup>	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise <sup>(6)</sup>	Total Regulation	Output Power	Efficiency <sup>(8)</sup>				
DTEPU60A-105		12~13VDC	4.61~5.00A		±5%	60W					
DTEPU60A-106	90~264VAC	13~16VDC	3.75~4.61A	100mVp-p	±5%	60W	88%				
DTEPU60A-107		16~21VDC	2.85~3.75A		±5%	60W					
DTEPU60A-108		21~27VDC	2.22~2.85A		±3%	60W					
DTEPU60A-109		27~33VDC	1.81~2.22A		±3%	60W					
DTEPU60A-110		33~40VDC	1.50~1.81A		±2%	60W					
DTEPU60A-111		40~48VDC	1.25~1.50A		±2%	60W					



SPECIFICATIO	NS							
	All specification	s are based on 25°C, Nominal Input Voltage, and Maximum Output Curr		herwise not	ed.			
SPECIFICATION		We reserve the right to change specifications based on technological a TEST CONDITIONS	advances. Min	Тур	Max	Unit		
INPUT SPECIFICA		TEST CONDITIONS	IVIIII	Тур	IVIAX	Offic		
Input Voltage Range		Safety Approvals Input Voltage Range	100		240	1		
		Operate Voltage Range	90		264	VAC		
		Operate vertage rearries	47		63	Hz		
Input Frequency		L E III L VII 400VAO	47			ПZ		
Input Current Inrush Current	Low Line	Io=Full Load, Vin=100VAC			1.3	A		
	High Line	lo=Full Load, Vin=240VAC	50		0.75			
	Low Line	Io=Full Load, 25°C, Cool Start, Vin=100VAC	50		55	Α		
OUTPUT SPECIFICATIONS		Io=Full Load, 25°C, Cool Start, Vin=240VAC	100		110			
	ICATIONS				Table			
Output Voltage		Io=Full Load Vin=100~120VAC	0.5	See	Table	%		
Line Regulation <sup>(4)</sup>			0.5		5	%		
Load Regulation <sup>(5)</sup>		Vin=230VAC, 10~90% Load Change at Condition			_	70		
Output Power			See Table					
Output Current	NALL - DVA(V(6)	Full Land Mar 200/AQ		1	Table			
Ripple & Noise (20		Full Load, Vin=90VAC		100		mVp-p		
Transient Respons	se Time	Io=Full Load, Vin=100VAC			4	mS		
Start-Up Time		Io=Full Load, Vin=100~240VAC			3	S		
Hold-Up Time		Io=Full Load, Vin=100VAC	10			mS		
Temperature Coefficient		Full Load, Vin=100~240VAC			±0.04	%/°C		
No Load Power Co		No Load, Vin=230VAC			0.21	W		
PROTECTION		· · · · · · · · · · · · · · · · · · ·						
Over Load Protect	ion	Recovers automatically after fault condition is removed	110		150	%		
Short Circuit Protection		Automatic Recovery			1.00	,,,		
ENVIRONMENTAL								
					70	00		
Operating Temperature		Derate linearly from 100% load at 40°C	0		70	°C		
Storage Temperature		10~95%RH	-40		85	°C		
Operating Humidity		Non-Condensing	0		95	%		
Storage Humidity			0		95	%		
Clastes Otatia Dias	l	Air Discharge, IEC61000-4-2			8	147		
Electro Static Disc	narge	Contact Discharge, IEC61000-4-2			6	kV		
Operating Altitude (Elevation)		All Conditions			3000	М		
Vibration		10~500Hz, 10min/1cycle, 60min. each along X, Y, Z axes			5	G		
VIDIGUOT		Line-Neutral			1			
Surge Voltage					2	kV		
		Line-PE & Neutral-PE						
Cooling	. ~		Free Air Convection UL94V-1					
Flammability Rating		Operating Temperature at 2500 calculated a se MIL LIDEK 0475	100.000	UL9	4V-1	Harres		
MTBF	FICATIONS	Operating Temperature at 25°C, calculated per MIL-HDBK-217F	100,000			Hours		
GENERAL SPECI	FICATIONS	1		00		0/		
Efficiency <sup>(8)</sup>		Io=Full Load, Vin=230VAC		88	0.75	%		
Safety Ground Lea	akage Current	Vin=240VAC/60Hz			0.75	mA		
Dielectric Withstanding Voltage		Primary to Secondary			4242	VDC		
0 0		Primary to PE Test Voltage=500VDC	50		2652	N40		
Isolation Resistant PHYSICAL SPECI		Test voltage=อบบงมด	50			ΜΩ		
	IFICATIONS			11.000	7 (340%)			
Weight		11.99oz (340g)						
Dimensions (L x W x H)			4.65in x 1.85in x 1.19in (118mm x 47mm x 30.3mm)					
SAFETY & EMC C	CHARACTERISTIC			. 3 7 77		,		
Safety Approvals		UL/c-UL (UL 60950-1: 2 <sup>nd</sup> Edition) <sup>(5</sup>						
, ,,		TUV/GS (EN 60950-1: 2 <sup>nd</sup> Edition Compliance to EN55022 (CISPR22				Class E		
EMC Emission		· · · · · · · · · · · · · · · · · · ·	·					
Protection Classes	•	Class I						

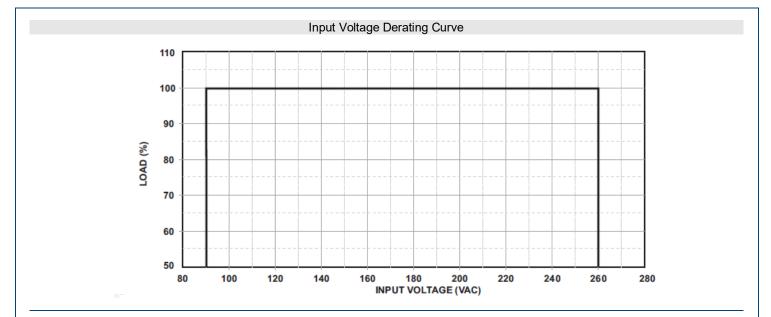


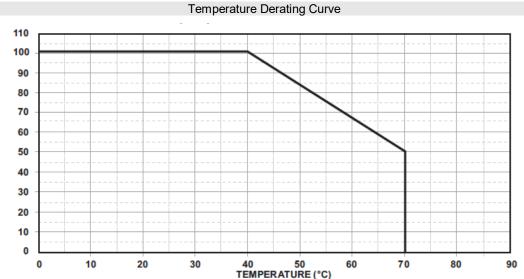
### **NOTES**

- (1) DTEPU60A-105~110 are required to use AWG#18/4FT output cable. DTEPU60A-111 is required to use AWG#20/4FT output cable. The electrical characteristics will be changed by modified output cable.
- (2) Output can provide up to peak load when the power supply starts up. Staying in more than rated load continually is not allowed.
- (3) Each output is checked to be within voltage accuracy in 60% rated load condition.
- (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 0.47µF capacitor at rated load and nominal line.
- (7) Hold up time is measured from 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.
- (8) Efficiency is measured at rated load, and nominal line.
- (9) This product is Listed to applicable standards and requirements by UL.

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

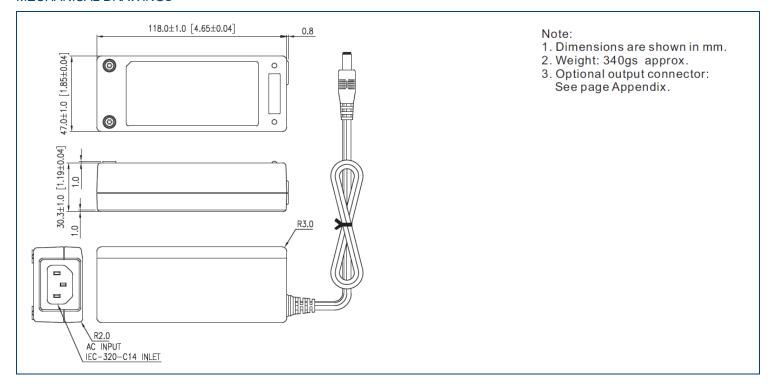
### DERATING CURVES -







#### MECHANICAL DRAWINGS



### 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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