



Size: 4.65 x 1.85 x 1.19 inches 118.0 x 47.0 x 30.3 mm

Weight: 2oz (340g)

Applications:

- POS Systems
- AV Equipment
- Industrial PCs
- Chargers
- LED Lighting Applications

FEATURES

- Class I
- RoHS2 Compliant
- 60 Watts Output Power
- Up to 88% High Efficiency
- Energy Star 2.0, Efficiency Level VI
- 90-264VAC Input Voltage Range
- Free Air Convection

SAFETY

- Single Outputs Ranging from 12VDC to 48 VDC
- UL 60950-1:2nd Edition, IEC 60950-1:2005/A2:2013, EN60950-1:2006/A2:2013 Safety Approvals
- -40°C to +70°C Operating Temperature Range
- IEC-320-C14 AC Inlet Connector
- Optional Output Connectors Available



DESCRIPTION

The DTAPU60 series of AC/DC desktop power supplies provides 60 Watts of continuous output power in a 4.65 x 1.85 x 1.19 inch package. This series consists of single output models ranging from 12VDC to 48VDC with a 90~264VAC input voltage range and an IEC-320-C14 AC inlet connector. Some features include high efficiency up to 88%, -40°C to +70°C operating temperature range, and short circuit and over current protection. All units are UL 94V-1, RoHS2, and CEC & Energy Star Level VI compliant. This series also meets FCC Part-15 class B and CISPR-22 class B emission limits. All models meet new CE requirements and have UL 60950-1:2nd Edition, IEC 60950-1:2005/A2:2013, EN60950-1:2006/A2:2013 safety approvals. All units have been 100% burn-in tested.

MODEL SELECTION TABLE									
Model Number (1)	Input Voltage Range	Output Voltage Min Max		Output Current Min Max		Output Power	Typical Efficiency	Ripple & Noise	Total Regulation
DTAPU60A-105	90 ~ 264VAC	12 VDC	13 VDC	4.61 A	5.00 A	60W	87.7%	100mVp-p	5%
DTAPU60A-106		13 VDC	16 VDC	3.75 A	4.61 A	60W	87.7%	100mVp-p	5%
DTAPU60A-107		16 VDC	21 VDC	2.85 A	3.75 A	60W	87.7%	100mVp-p	5%
DTAPU60A-108		21 VDC	27 VDC	2.22 A	2.85 A	60W	88%	100mVp-p	3%
DTAPU60A-109		27 VDC	33 VDC	1.81 A	2.22 A	60W	88%	100mVp-p	3%
DTAPU60A-110		33 VDC	40 VDC	1.50 A	1.81 A	60W	88%	100mVp-p	3%
DTAPU60A-111		40 VDC	48 VDC	1.25 A	1.50 A	60W	88%	100mVp-p	3%



We	e reserve the right to change specifications based on technological a	advances.			
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage	Safety Approvals Input Voltage Range	100		240	VAC
	Operating Input Voltage Range	90		264	
Input Frequency		47		63	Hz
Input Current	Low Line; 100VAC, full load			1.45	A
•	High Line; 240VAC, full load			1.45	
High Line Inrush Current	230VAC, full load, 25°C, cold start			105	A
No Load Power Consumption	230VAC, no load			0.5	W
OUTPUT SPECIFICATIONS			0	T-1-1-	
Output Voltage		0.5	See	Table	0/
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	3		5	%
Output Power				60 Tabla	W
Output Current				Table	
Ripple & Noise (20MHz BW)	90VAC, full load	10	100		mVp-p
Hold-up Time	100VAC, full load	10		0	ms
Start-up Time Transient Response Time	100~240VAC, full load 110VAC, Full load			3 4	S
Temperature Coefficient		0.04		-	ms %/°C
	Full Load, Vin=100~240VAC	-0.04	0.01	+0.04	%/°C
No Load Consumption			0.21		VV
PROTECTION		110		4 = 0	01
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Short Circuit Protection		A	utomatic	c Recovery	
GENERAL SPECIFICATIONS					1
Efficiency	230 VAC, full load	87			%
Dielectric Withstanding Voltage	Primary to Secondary			4242	VDC
	Primary to PE			2652	
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Leakage Current	240VAC/60Hz			0.75	mA
ENVIRONMENTAL SPECIFICA					
Operating Temperature	Derating linearly from 100% Load at 40°C to 50% load at 70°C	-40		+70	°C
Storage Temperature	10~95%RH	-40		+85	°C
Operating Humidity	Non-Condensing	0		95	%RH
Storage Humidity		0		95	%RH
Cooling	Free air c				
Flammability Rating			UL9	4V-1	
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
-	Contact Discharge, IEC61000-4-2			6	
Operating Altitude				2000	m
Vibration	10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	kV
U U	Line-PE & Neutral-PE			2	
MTBF	MIL-HDBK-217F, 25°C	100,000			hours
PHYSICAL SPECIFICATIONS					
Weight				(340g)	
Dimensions (L x W x H)		4.65 x 1.85 x 1.19 in			
. ,		(118		0 x 30.3 m	m)
AC Inlet				20-C14	
Output Connector		Sev	eral opti	ons availat	ble
SAFETY, EMC, & COMPLIANC					
	UL60950-1: 2nd Edition				
Safety Approvals	IEC 60950-1:2005/A2:2013				
	EN60950-1:2006/A2:2013				
Compliance				HS2	
CEC & Energy Star		CEC and		Star 2.0, E	fficiency
ord a ridigy oldi			Lev	el VI	



NOTES

1. The output voltage is specified as a range (ex: 40~48VDC); the customer must specify what they would like the output voltage set at.

 DTAPU60A-105 need to use AWG#16/4FT output cable in order to meet all listed specifications. Models DTAPU60A-106~111 need to use AWG#18/4FT output cable in order to meet all listed specifications. The specifications will change if a different output cable is used.

3. Optional output connectors are available for this series. Please call factory for ordering details.

4. At factory, each output is checked to be within voltage accuracy in 60% rated load condition.

5. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.

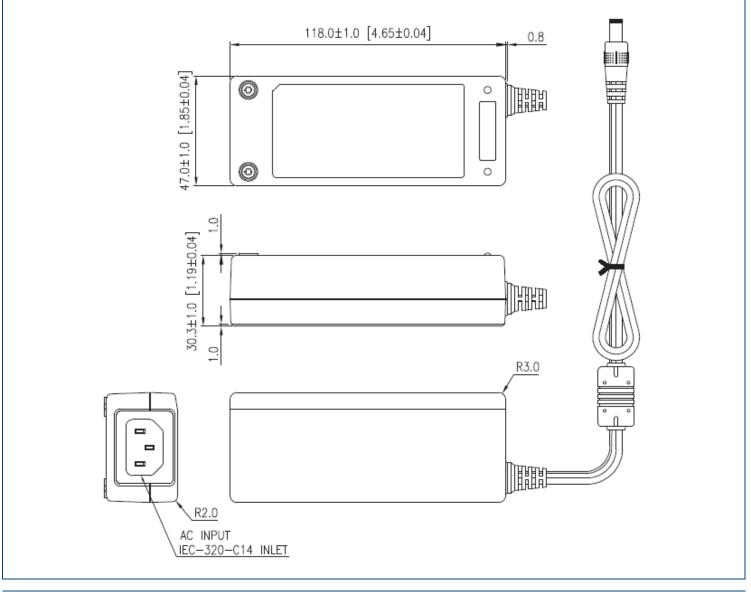
6. Load regulation is defined by changing ±40% of measured output load from 60% rated load

7. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF 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.

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

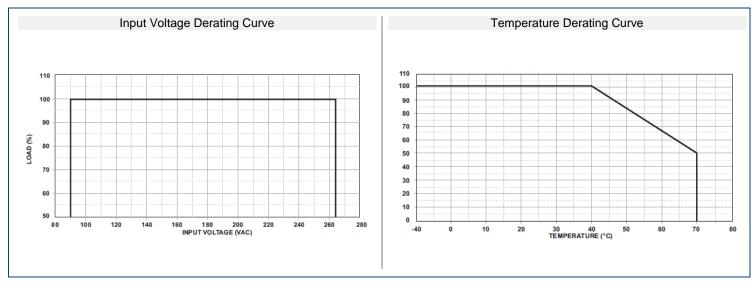
MECHANICAL DRAWING



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DERATING -



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.

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