Size: 4.65in x 1.85in x 1.19in (118mm x 47mm x 30.3mm)

FEATURES

- Wide Operating Voltage 90 to 264VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Optional Output Connectors Available
- Single Output
- Class I System
- Over Load and Short Circuit Protection
- Cooling by Free Air Convection
- Meets Efficiency Level VI
- UL/c-UL(UL 60950-1:2nd Edition), TUV/GS (EN 60950-1: 2nd Edition) Safety Approvals

APPLICATIONS

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

DESCRIPTION

The DTIPU61A series of AC/DC industrial desktop power supplies offers 60 watts of output power in a 4.65” x 1.85” x 1.19” package. This series has a wide operating voltage range of 90~264VAC and consists of single output models ranging from 12V to 48V. The DTIPU61A has an IEC-320-C14 input inlet and optional output connectors are available. This series meets efficiency level VI, has over load and short circuit protection, and has UL/c-UL(UL 60950-1:2nd Edition), TUV/GS (EN 60950-1: 2nd Edition) safety approvals.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise	No Load Input Current	Output Power	Efficiency
			Min Load	Max Load				
DTIPU61A-105	90~264VAC	12-13VDC	4.61A	5.00A	100mVp-p	0.5W	60W	87% min.
DTIPU61A-106		13-16VDC	3.75A	4.61A				
DTIPU61A-107		16-21VDC	2.85A	3.75A				
DTIPU61A-108		21-27VDC	2.22A	2.85A				
DTIPU61A-109		27-33VDC	1.81A	2.22A				
DTIPU61A-110		33-40VDC	1.50A	1.81A				
DTIPU61A-111		40-48VDC	1.25A	1.50A				

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	Typ	Max	Unit
INPUT SPECIFICATIONS						
Input Voltage Range	Safety Approval & Specification in Label		100		240	VAC
	Operate Range		90		264	
Input Frequency			47		63	Hz
Input Current	Low Line	Full Load, Vin=100VAC			1.45	A
	High Line	Full Load, Vin=240VAC			1.45	
High Line Input Inrush Current	Full Load, 25ºC, Cool start, Vin=240VAC				105	A
Safety Ground Leakage Current	Vin=240VAC, 60Hz				0.75	mA
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Line Regulation(3)	Full Load, Vin=100~120VAC		0.5		1	%
Load Regulation(4)	Vin=230VAC, 10~90% Load Change at Condition		3		5	%
Output Power					60	W
Output Current			See Table			
Ripple & Noise (20MHz bandwidth)(5)				100		mVp-p
Transient Response Recovery Time	Full Load, Vin=110VAC				4	mS
Start-Up Time	Full Load, Vin=100~240VAC				3	S
Hold-Up Time(6)	Full Load, Vin=100VAC					
Temperature Coefficient	Full Load, Vin=100~240VAC				±0.04	%/ºC
PROTECTION						
Short Circuit Protection			Automatic Recovery			
Over Load Protection			110		150	%
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature			-20		70	ºC
Storage Temperature	10~95% RH		-40		85	ºC
Operating Humidity	Non-Condensing		0		95	% RH
Storage Humidity			0		95	% RH
Operating Altitude (Elevation)	All conditions				3000	M
Vibration	10~500Hz, 10min./1 cycle, 60min. each along X, Y, Z axes				5	G
Cooling			Free Air Convection			
Flammability Rating			UL94V-1			
MTBF	Operating Temperature at 25ºC, calculated per MIL-HDBK-217F		100,000			Hours
GENERAL SPECIFICATIONS						
Efficiency	Full Load, Vin=230VAC		87			%
Dielectric Withstanding Voltage	Primary to Secondary				4242	VDC
	Primary to PE				2645	
PHYSICAL SPECIFICATIONS						
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 CHARACTERISTICS						
Safety	UL/c-UL(UL 60950-1: 2nd Edition)(8) TUV/GS (EN 60950-1: 2nd Edition)					
EMC Emission	EN55022 (CISPR22)		Class B			
Electro Static Discharge	Air Discharge, IEC61000-4-2				8	kV
	Contact Discharge, IEC61000-4-2				6	
Surge Voltage	Line-Neutral				1	kV
	Line-PE & Neutral-PE				2	
Protection Class			Class I			

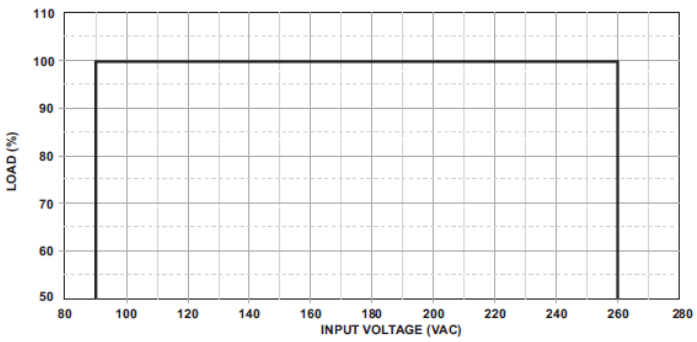
NOTES

(1) Output can provide up to peak load when the power supply starts up. Staying in more than rated load continually is not allowed.
(2) At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
(3) Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
(4) Load regulation is defined by changing ±40% of measured output load from 60% rated load.
(5) 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.
(6) 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.
(7) Efficiency is measured at rated load and nominal line.
(8) This product is Listed to applicable standards and requirements by UL.

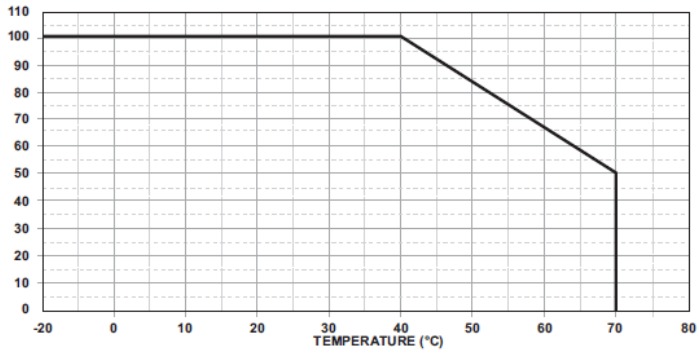
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES

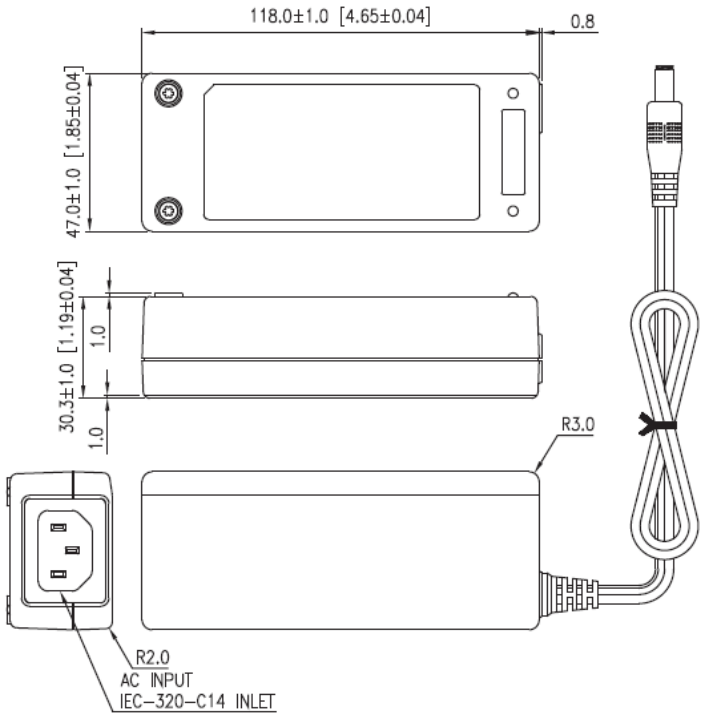
Input Voltage Derating Curve



Temperature Derating Curve



MECHANICAL DRAWINGS



Notes:
Output Cables:
DTIPU61A-105~107 are required to use AWG#16/4FT output cable
DTIPU61A-108~109 are required to use AWG#18/4FT output cable
DTIPU61A-110~111 are required to use AWG#20/4FT output cable
Optional output cables are available. Please call factory for details.

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.

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