



OPTIONS

- AC Inlet
 - -IEC-320-C14 -IEC-320-C8

 - -IEC-320-C6
- Output Connectors

FEATURES

- Burn-in Tested
- A & C Types are Efficiency Level VI Compliant
- Single Output Voltages Available from 5~ 48VDC
- Wide Input Voltage Range: 80~275VAC
- **Short Circuit Protection**
- Efficiency up to 86.35%
- Class I for A & C Types; Class II for B Type
 -20°C to +70°C Operating Temperature Range
 - IEC-320-C14, IEC-320-C8, and IEC-320-C6 AC Inlets Available
 - A & C Types Meet IEC 62368-1 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 No. 62368-1-14, EN 62368-1: 2014, and J 62368-1 Safety Approvals
 - B Type Meets UL 60950-1: 2nd Edition, IEC 60950-1:2005/A2:2013, EN60950-1:2006/A2:2013, CSA C22.2 No. 60950-1-07 Safety Approvals
 - Optional Output Connectors Available

APPLICATIONS

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-Top Box
- AV Equipment

DESCRIPTION

The DTIPU25 series of AC/DC desktop power supplies provides up to 25 Watts of continuous output power. This series consists of single output models with a 80~275VAC input voltage range. Each model in this series is burn-in tested, has short circuit protection, and has optional output connectors available. The A and C type models of the DTIPU25 series meet IEC 62368-1 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 No. 62368-1-14, EN 62368-1: 2014, and J 62368-1 safety approvals, while the B type models meet UL 60950-1: 2nd Edition, IEC 60950-1:2005/A2:2013, EN60950-1:2006/A2:2013, CSA C22.2 No. 60950-1-07 safety approvals.



MODEL SELECTION TABLE												
Model Number	Input Voltage Range	Output Voltage ⁽¹⁾	Output Min Load	Current Max Load	Ripple & Noise	Total Regulation	Output Power	Efficiency	Efficiency Level	Typ. No Load Consumption	Class	AC Inlet
DTIPU25A-102*		5~6VDC	2.75A	3.30A	60mVp-p	±5%	16.5W	81.97%	VI	0.1W	Class I	IEC-320- C14
DTIPU25A-103*	80~275VAC	6~8VDC	2.50A	3.33A	80mVp-p	±5%	20W	85.47%	VI	0.1W		
DTIPU25A-104*		8~11VDC	2.00A	2.75A	110mVp-p	±5%	22W	85.87%	VI	0.1W		
DTIPU25A-105		11~13VDC	1.92A	2.27A	130mVp-p	±5%	25W	86.35%	VI	0.1W		
DTIPU25A-106*		13~16VDC	1.56A	1.92A	150mVp-p	±5%	25W	86.35%	VI	0.1W		
DTIPU25A-107*		16~21VDC	1.19A	1.56A	200mVp-p	±5%	25W	86.35%	VI	0.1W	Class I	
DTIPU25A-108*		21~27VDC	0.92A	1.19A	200mVp-p	±4%	25W	86.35%	VI	0.1W		
DTIPU25A-109*		27~33VDC	0.75A	0.92A	250mVp-p	±3%	25W	86.35%	VI	0.1W		
DTIPU25A-110*		33~40VDC	0.62A	0.75A	250mVp-p	±3%	25W	86.35%	VI	0.1W		
DTIPU25A-111		40~48VDC	0.52A	0.62A	300mVp-p	±3%	25W	86.35%	VI	0.1W	1	
DTIPU25B-102*		5~6VDC	2.75A	3.30A	60mVp-p	±5%	16.5W	75.3%	-	0.5W		IEC-320- C8
DTIPU25B-103		6~8VDC	2.50A	3.33A	80mVp-p	±5%	20W	77%	-	0.5W		
DTIPU25B-104*		8~11VDC	2.00A	2.75A	110mVp-p	±5%	22W	77.9%	-	0.5W		
DTIPU25B-105		11~13VDC	1.92A	2.27A	130mVp-p	±5%	25W	82.4%	CEC V	0.3W		
DTIPU25B-106*	00 075\/40	13~16VDC	1.56A	1.92A	150mVp-p	±5%	25W	82.4%	CEC V	0.3W	01 11	
DTIPU25B-107	80~275VAC	16~21VDC	1.19A	1.56A	200mVp-p	±5%	25W	83%	CEC V	0.3W	Class II	
DTIPU25B-108		21~27VDC	0.92A	1.19A	200mVp-p	±4%	25W	83%	CEC V	0.3W	1	
DTIPU25B-109*		27~33VDC	0.75A	0.92A	250mVp-p	±3%	25W	83%	CEC V	0.3W		
DTIPU25B-110*		33~40VDC	0.62A	0.75A	250mVp-p	±3%	25W	83%	CEC V	0.3W		
DTIPU25B-111*		40~48VDC	0.52A	0.62A	300mVp-p	±3%	25W	83%	CEC V	0.3W		
DTIPU25C-102*	80~275VAC	5~6VDC	2.75A	3.30A	60mVp-p	±5%	16.5W	81.97%	VI	0.1W		
DTIPU25C-103*		6~8VDC	2.50A	3.33A	80mVp-p	±5%	20W	85.47%	VI	0.1W		IEC-320- C6
DTIPU25C-104*		8~11VDC	2.00A	2.75A	110mVp-p	±5%	22W	85.87%	V	0.1W		
DTIPU25C-105		11~13VDC	1.92A	2.27A	130mVp-p	±5%	25W	86.35%	VI	0.1W		
DTIPU25C-106*		13~16VDC	1.56A	1.92A	150mVp-p	±5%	25W	86.35%	VI	0.1W	Class I	
DTIPU25C-107*		16~21VDC	1.19A	1.56A	200mVp-p	±5%	25W	86.35%	VI	0.1W		
DTIPU25C-108*		21~27VDC	0.92A	1.19A	200mVp-p	±4%	25W	86.35%	VI	0.1W		
DTIPU25C-109*		27~33VDC	0.75A	0.92A	250mVp-p	±3%	25W	86.35%	VI	0.1W	1	
DTIPU25C-110*		33~40VDC	0.62A	0.75A	250mVp-p	±3%	25W	86.35%	VI	0.1W		
DTIPU25C-111*		40~48VDC	0.52A	0.62A	300mVp-p	±3%	25W	86.35%	VI	0.1W	1	

^{*}MOQ is required. Please contact sales.

All specification	s are based on 25°	C, Nominal Input Voltage, and Maximum Output Current unle	ess otherwis	e noted.				
'		ght to change specifications based on technological advance						
SPECIFICATION		TEST CONDITIONS				Unit		
INPUT SPECIFICATIONS	'		· ·		<u>'</u>			
Innut Valtage Dange	Safety Approva	Safety Approval & Specification in Label				VAC		
nput Voltage Range	Operate Voltag	Operate Voltage Range, See Derating Curve						
nput Frequency	Sine Wave	Sine Wave				Hz		
Input Current	Low Line, Full	Low Line, Full Load, Vin=100VAC				_		
	High Line, Full	High Line, Full Load, Vin=240VAC				A		
	A Type	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC			30			
nrush Current		High Line, Full Load, 25°C, Cool Start, Vin=240VAC			60	_ A		
mrush Current	B & C Type	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC			25	Α		
		High Line, Full Load, 25°C, Cool Start, Vin=240VAC			60	A		
Safety Ground Leakage Current	A & C Type	Vin=264VAC, Fi=63Hz			0.75	mA		
	В Туре	Vin=240VAC, Fi=60Hz			0.25] IIIA		
OUTPUT SPECIFICATIONS								
Output Voltage				See	Table			
ine Regulation	Full Load, Vin=100~120VAC 0.5				1	%		
_oad Regulation	Vin=230VAC,	Vin=230VAC, 10~90% Load Change at Condition 1				%		
Output Power				See	Table			
Output Current				See Table				
Ripple & Noise			See Table					
Transient Response Time	lo=Full Load to	lo=Full Load to Half Load, Vin=110				ms		
Start-Up Time	Full Load, Vin=	Full Load, Vin=100~240VAC			2	S		
Hold-Up Time	Full Load, Vin=100VAC			12		S		
Temperature Coefficient	Full Load, Vin=	-100~240VAC			±0.04	%/°C		



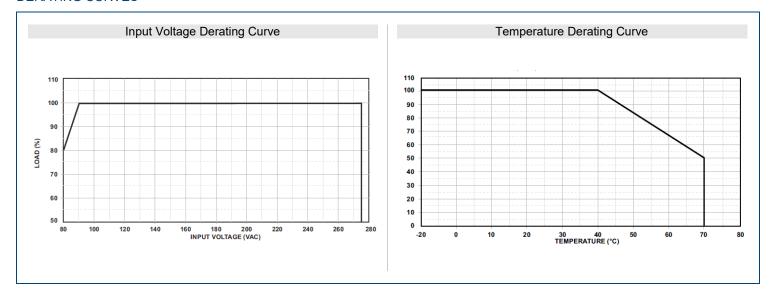
SPECIFICATIONS										
All specification	ns are based on 25°C, Nomina	Input Voltage, and Maximum Output Curren	t unless otherw	ise noted.						
CDECIFICATION -		nge specifications based on technological adv		T. 05	Moss	Lluit				
SPECIFICATION		EST CONDITIONS	Min	Тур	Max	Unit				
PROTECTION Short Circuit Protection				utomotic D	0001/05/					
	ANC SIM		A	utomatic R	ecovery					
ENVIRONMENTAL SPECIFICATIO		/ land at 40°C to 500/ land at 70°C	20		70	°C				
Operating Temperature	10~95%RH	6 load at 40°C to 50% load at 70°C	-20 -40		70 85	°C				
Storage Temperature										
Operating Humidity	Non-Condensing		0		95	%RH				
Storage Humidity	All O I''		0		95	%RH				
Operating Altitude (Elevation)	All Conditions				2000	M				
Vibration	10~500Hz, 10min./1cycle	10~500Hz, 10min./1cycle, 60min. Each along X, Y, Z axes				G				
MTBF	Operating Temperature a	t 25°C, calculated per MIL-HDBK-217F	300,000			Hour				
GENERAL SPECIFICATIONS										
Efficiency	Measured at rated load a			See Tal						
Dielectric Withstanding Voltage		Primary to Secondary			4242	VDC				
Dielectric Withstanding Voltage		Primary to PE			2121	VDC				
Surge Voltage		Line-Neutral			1	kV				
	A & C Models	Line-PE & Neutral-PE			2	KV				
PHYSICAL SPECIFICATIONS										
Weight			A	pprox. 6oz	(170g)					
	A Type		4.11in x 1.65in x 1.22in							
Dimensions (L. v. W. v. H.)	A Type		(104.4mm x 42mm x 31mm)							
Dimensions (L x W x H)	D 9 C Tyro	D 0 O T				3.90in x 1.65in x 1.22in				
	B & C Type		(99mm x 42mm x 31mm)							
Cooling			Free Air Convection							
SAFETY CHARACTERISTICS										
						IEC 62368-1 Edition 2.0, UL 62368-7				
Safety Approvals		A & C Type			62368-1: 2014, and J 62368-					
		UL 60950-1: 2nd Edition, IEC 60950								
		1:2005/A2:2013, EN60950-1:2006/A2:2013								
		CSA C22.2 No. 60950-1-0								
	A & C Tvn	A & C Type Compliance to EN55032 (CISPR32)								
EMC Emission	В Тур					Class				
	Бтур	Air Discharge: IEC61000-4-2		8						
Electro Static Discharge		Contact Discharge: IEC61000-4-2				kV				
	A & C Models	2 4 Class								
Safety Class	B Models	Double Insulated, Class I								
	D WOUEIS			Doubl	e msuiateo	i, Class				

NOTES

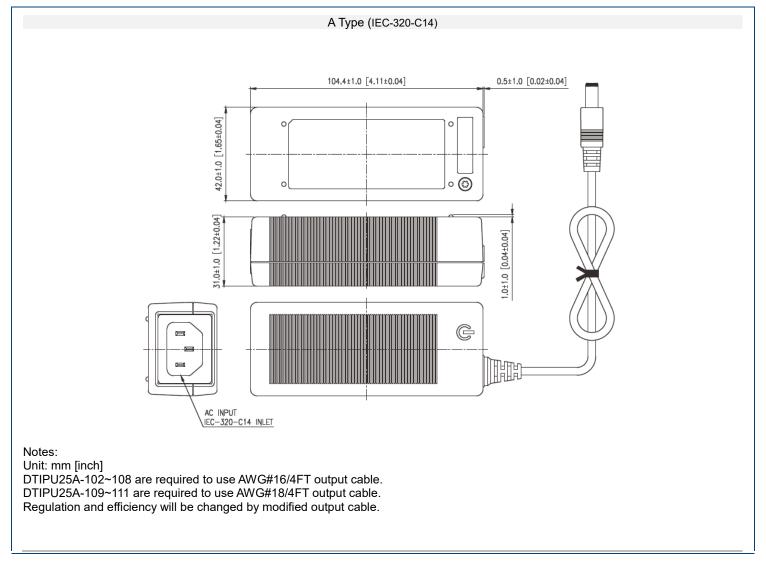
- 1. Factory setting, cannot be adjusted.
- 2. Output can provide up to peak load when power supply starts up. Continually staying in rated load is not allowed.
- 3. Each output is checked to be within voltage accuracy in 60% rated load condition.
- 4. At factory, in 60% load condition, each output is 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 from peak to peak with a bandwidth limit of 20MHz (measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
- 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.
- 9. Optional output connectors are available. Contact sales for details.
- 10. This product is Listed to applicable standards and requirements by UL.
- Due to advances in technology, specifications subject to change without notice.



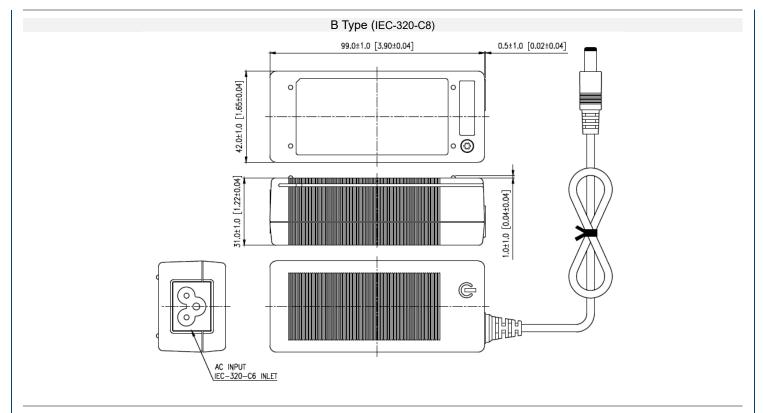
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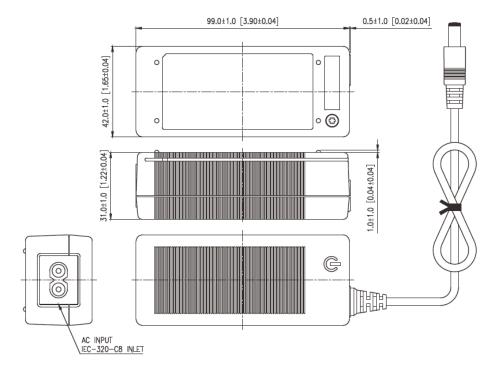
MECHANICAL DRAWINGS







C Type (IEC-320-C6)



Notes:

Unit: mm [inch]

DTIPU25C-102~108 are required to use AWG#16/4FT output cable.

DTIPU25C-109~111 are required to use AWG#18/4FT output cable.

Regulation and efficiency will be changed by modified output cable.



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:

Phone: ☎(603)778-2300 Toll Free: ☎(888)597-9255 Fax: ☎(603)778-9797

E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive

Exeter, NH 03833

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