



Size: 3.90in x 1.65in x 1.22in

Size: 4.11in x 1.65in x 1.22in

OPTIONS

- AC Inlet
- -IEC-320-C6
- -IEC-320-C8
- -IEC-320-C14
- Output Connector

FEATURES

- Wide Input Voltage Range of 90~264VAC
- RoHS2 Compliant
- Type B is a Class II System, Type A and C are Class I Systems
- Optional Output Connectors are Available
- Level VI Compliant

- 3 AC Inlets Available: IEC-320-C6, IEC-320-C8, or IEC-320-C14
- Short Circuit Protection
- 100% Burned-In Tested
- UL/cUL (UL 60950-1:2nd Edition), TUV/GS (EN60950-1: 2nd Edition Safety Approvals

APPLICATIONS

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

DESCRIPTION

The DTIPU20 Series of AC/DC sw itching mode single output pow er supplies provides 20 w atts of continuous output pow er. All models have a single output, universal input voltage range, and an operating temperature range of -20°C ~ +70°C. This series also has three types of AC inlet connectors to choose from: Type A (IEC-320-C6), Type B (IEC-320-C8), or Type C (IEC-320-C14)I. All supplies are UL 94V-1 compliant. All models meet FCC Part-15 class B and CISPR-22 class B emission limits and are designed to comply with UL/cUL (UL 60950-1:2nd Edition), TUV/GS (EN 60950-1) safety approvals. All units are Energy Star VI compliant and are 100% burn-in tested.

MODEL SELECTION TABLE												
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Total Regulation	Output Power	Pinnle & Noise	No Load Consumption				
			Min Load	Max Load	1 Otal Negulation	Output I ower	Tripple & Noise	No Load Consumption				
DTIPU20x-102	90~264VAC	5~6VDC	2.50A	3.00A	±5%	15W		0.3W				
DTIPU20x-103		6~8VDC	1.87A	2.30A	±5%	15W						
DTIPU20x-104		8~11VDC	1.81A	2.50A	±5%	20W						
DTIPU20x-105		11~13VDC	1.53A	1.81A	±5%	20W						
DTIPU20x-106		13~16VDC	1.25A	1.53A	±5%	20W	100mVp-p					
DTIPU20x-107		16~21VDC	0.95A	1.25A	±4%	20W	Ισσιίτνρ-ρ					
DTIPU20x-108		21~27VDC	0.74A	0.95A	±4%	20W						
DTIPU20x-109		27~33VDC	0.60A	0.74A	±3%	20W						
DTIPU20x-110		33~40VDC	0.50A	0.60A	±3%	20W						
DTIPU20x-111		40~50VDC	0.40A	0.50A	±3%	20W						



SPECIFICATIONS							
All specifica	tions are based on 25°C, Nominal Input Vo We reserve the right to change spec	oltage, and Maximum Output	it Current unless otl	herwise note	ed.		
SPECIFICATION	TEST CONDITIO		Min	Тур	Max	Unit	
INPUT SPECIFICATIONS							
	Safety Approval Range		100		240		
Input Voltage Range	Operate Range		90		264 VA		
Input Frequency	Operate range		47		63	Hz	
Input Flequency	Low Line, Full Load, Vin=100VAC	47		0.5	112		
Input Current	High Line, Full Load, Vin=100VAC			0.3	A		
	Low Line, Full Load, 25°C, Cool Start, Vi	25		50			
Inrush Current	High Line, Full Load, 25°C, Cool Start, Vi	50		100	A		
Safety Ground Leakage Current		50		0.25	- A		
OUTPUT SPECIFICATIONS	VIN=240 VAC, FI=60HZ				0.25	mA	
			1	Caa Tab	1-		
Output Voltage	Full and Min-400, 400MAC		See Table				
Line Regulation(4)	Full Load, Vin=100~120VAC		0.5		1	%	
Load Regulation ⁽⁵⁾					5	%	
Output Power		See Table					
Output Current				See Tab			
Ripple & Noise ⁽⁶⁾				See Tab			
Transient Response Time	Full Load, Vin=110VAC				4	mS	
Start-Up Time	Full Load, Vin=100~240VAC				3	S	
Hold-Up Time ^(')	Full Load, Vin=100VAC		8			S	
Temperature Coefficient	emperature Coefficient Full Load, Vin=100~240VAC				±0.04	%/°C	
PROTECTION							
Short Circuit Protection			A	utomatic Re	covery		
ENVIRONMENTAL SPECIFICA	TIONS						
Operating Temperature	Derates linearly from 100% load at 40°C	to 50% Ioad at 70℃	-20		70	°C	
Storage Temperature	10~95% RH		-40		85	°C	
Operating Humidity	Non-Condensing	0		95	%RH		
Storage Humidity	<u> </u>		0		95	%RH	
Operating Altitude	All Conditions				3000	М	
Vibration	10~500Hz, 10min/1cycle, 60min. each a	long X. Y. Zaxes					
Cooling		Free Air Convection					
MTBF	Operating Temperature at 25°C (per MIL	100,000			Hours		
GENERAL SPECIFICATIONS		,				7122112	
Efficiency			76	T	85	%	
	All Models	Primary to Secondary		4242	- 55		
Dielectric Withstanding Voltage	Type A and Type C Only	Primary to PE		2550		VDC	
No Load Power Consumption	Type reality Type o only	1 milary to 1 E		0.3		W	
· ·	Line-Neutral			0.0	1		
Surge Voltage	Line-PE & Neutral-PE		 	2	- kV		
PHYSICAL SPECIFICATIONS	Lille-1 L & Neutlai-1 L						
Weight			Ι Δ	pprox. 6oz	(170a)		
Weight	Type A and Type D					21 m m)	
Dimensions (L x W x H)	Type A and Type B	3.90in x 1.65in x 1.22in (99mm x 42mm x 31mm) 4.11in x 1.65in x 1.22in (104.4mm x 42mm x 31mm)					
	Type C		4.11111 X 1.05IN X			III X S IIIIII	
Flammability Rating				UI94V-	ı		
SAFETY CHARACTERISTICS	LII /- LII /III 00050 4 0105 110 1	(i) T.IV./OO/FNIOOOFO 4 3 15					
Safety Approvals	UL/c-UL (UL 60950-1:2 [™] Edition)	Edition) CE, CB, FCC					
EMCEmission		EN55022 (CISPR22)				Class	
EMC Emission	Type A and C	EN00022 (CIOPR22)				Class E Class	
Safety Class	Type A and C						
	ТуреВ			Do	uble Insula	tea, Class	

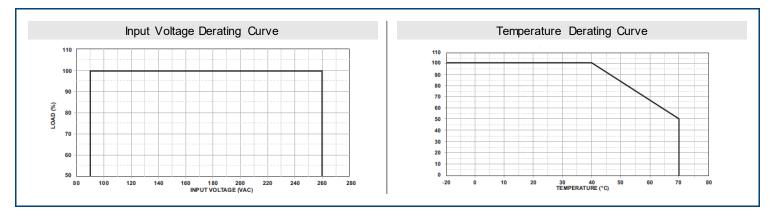
NOTES

- 1. "X" in model number indicates the AC Inlet type. "X" can either be "A" for IEC-320-C6, "B" for IEC-320-C8, or "C" for IEC-320-C14.
- 2. Output can provide up to peakload when 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 a 0.47uF capacitor at rated load and nominal line.
- 7. 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.
- 8. This product is Listed to applicable standards and requirements by UL.

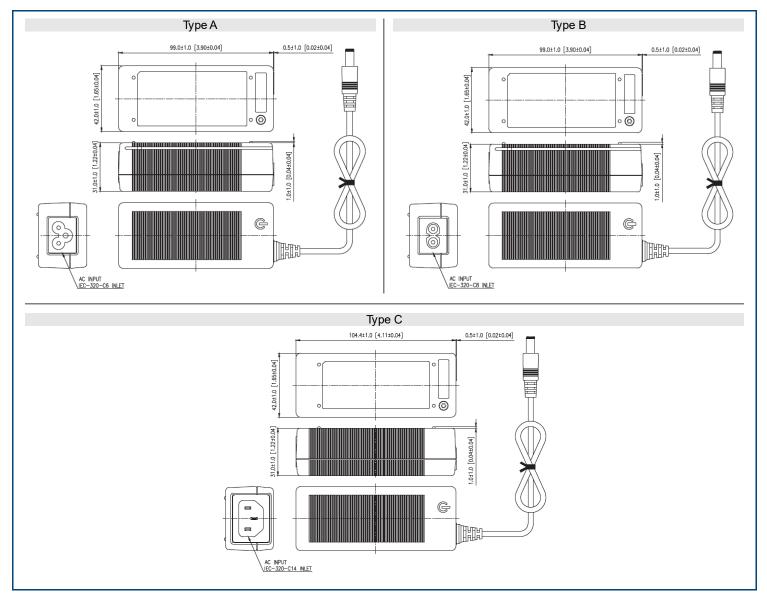
Due to advances in technology, specifications subject to change without notice.



DERATING CURVES -



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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