



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 switching mode single output power supplies provides 20 watts of continuous output power. 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 (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	Ripple & Noise	No Load Consumption			
			Min Load	Max Load	Total Regulation	Output Fower	Rippie & Noise	No Load Consumption			
DTIPU20x-102	90~264VAC	5~6VDC	2.50A	3.00A	±5%	15W	- 100mVp-p				
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		0.3W			
DTIPU20x-107		16~21VDC	0.95A	1.25A	±4%	20W					
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					



SPECIFICATION		nge specifications based on technolo ONDITIONS	Min	Тур	Max	Unit		
NPUT SPECIFICATIONS	TEST C	UNDITIONS	IVIIII	Тур	IVIAX	Unit		
NPUT SPECIFICATIONS	Cofety Approval Dense		400		040	ī		
nput Voltage Range	Safety Approval Range		100		240	VAC		
·	Operate Range		90		264	54		
nput Frequency			47		63	Hz		
nput Current	Low Line, Full Load, Vin=100VA				0.5	Α		
npat Garrent	High Line, Full Load, Vin=240VA				0.3	_ ^		
nrush Current	Low Line, Full Load, 25°C, Cool		25		50	A		
Tirusti Current	High Line, Full Load, 25°C, Cool	50		100	_ ^			
Safety Ground Leakage Current				0.25	mA			
OUTPUT SPECIFICATIONS	,							
Output Voltage				See Tab	le			
_ine Regulation ⁽⁴⁾	Full Load, Vin=100~120VAC		0.5		1	%		
_oad Regulation ⁽⁵⁾	Vin=230VAC, 10~90% Load Cha	ange at Condition	3		5	%		
Output Power	7111-200 77 (e), 10 00 70 20 dd 0110	arigo at Corianion		See Tab	-	70		
Output Current		See Table						
Ripple & Noise ⁽⁶⁾			See Table					
Transient Response Time	Full Load, Vin=110VAC			See Tab	4	mS		
	· · · · · · · · · · · · · · · · · · ·							
Start-Up Time	Full Load, Vin=100~240VAC				3	S		
Hold-Up Time ⁽⁷⁾	Full Load, Vin=100VAC		8			S		
Temperature Coefficient	Full Load, Vin=100~240VAC				±0.04	%/°C		
PROTECTION								
Short Circuit Protection			ļ A	Automatic Re	covery			
ENVIRONMENTAL SPECIFICAT	ΓIONS							
Operating Temperature	Derates linearly from 100% load	at 40°C to 50% load at 70°C	-20		70	٥C		
Storage Temperature	10~95% RH		-40		85	٥C		
Operating Humidity	Non-Condensing		0		95	%RH		
Storage Humidity			0		95	%RH		
Operating Altitude	All Conditions				3000	М		
Vibration	10~500Hz, 10min./1cycle, 60mir	n, each along X, Y, Z axes						
Cooling	, , , , , , , , , , , , , , , , , , , ,		Free Air Convection					
MTBF	Operating Temperature at 25°C	(ner MII -HDBK-217F)	100,000 Hours					
GENERAL SPECIFICATIONS	operating remperature at 25 C	(per mile ribbit 2111)	100,000			Tioure		
Efficiency			76		85	%		
	All Models	Primary to Secondary	70	4242	00	/0		
Dielectric Withstanding Voltage	Type A and Type C Only	Primary to Secondary		2550		VDC		
Na Land Dawer Consumption	Type A and Type C Only	Filliary to FE				W		
No Load Power Consumption				0.3		VV		
Surge Voltage	Line-Neutral				1	kV		
	Line-PE & Neutral-PE			2				
PHYSICAL SPECIFICATIONS								
Weight			Approx. 6oz (170g)					
Dimensions (L. v.M. v. L.)	Type A and Type B	3.90in x 1.65in	x 1.22in (99n	nm x 42mm	x 31mm			
Dimensions (L x W x H)	Type C	4.11in x 1.65in x 1.22in (104.4mm x 42mm x 31m						
Flammability Rating	UI94V-1							
SAFETY CHARACTERISTICS								
	UL/c-UL (UL 60950-1:2nd Edition	n), TUV/GS (EN60950-1:2 nd Edition)						
Safety Approvals	22 3 22 (32 33333 1.2 Editio	CE, CB, FCC						
EMC Emission		EN55022 (CISPR22)				Class		
-1110 -1111001011		L1400022 (0101 1(22)						
Safety Class	Type A and C					Clas		

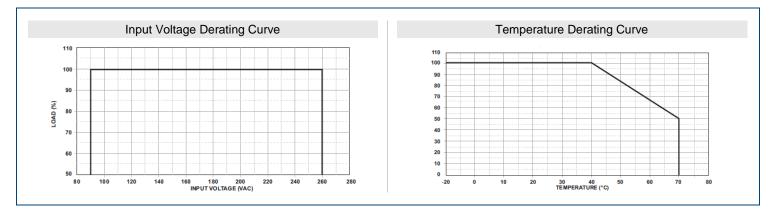
NOTES

- 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 peak load 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.

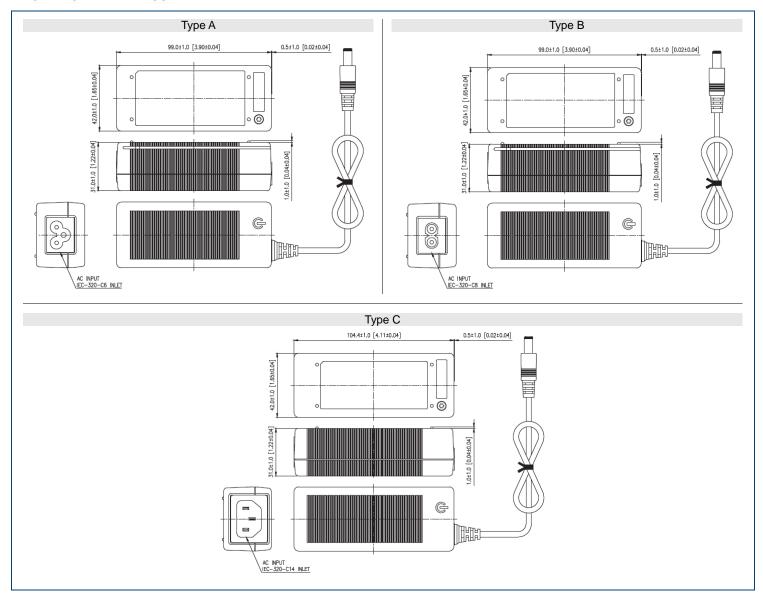
*Due to advances in technology, specifications subject to change without notice.



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 ISO9001-2008 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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