



Size: 4.11 x 1.65 x 1.22 inches



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FEATURES

- RoHS Compliant
- 20 Watts Output Power
- Single Outputs
- Up to 85% High Efficiency
- Free Air Convection Cooling
- 90-264VAC Input Voltage Range
- 100% Burn-In Tested
- Short Circuit Protection

- < 0.3W No Load Power Consumption
- Class I (A & C Types); Class II (B Type)
- Approved as Limited Power Source (LPS)
- UL/cUL (UL 60950-1: 2nd ed.) & TUV/GS (EN 60950-1: 2nd ed.) Safety Approvals
- Energy Star 2.0, Efficiency Level VI
 Meets FCC Part-15 Class B & CISPR-22 Class B **Emission Limits**
 - IEC-320-C14, C8, & C6 AC Inlet Connectors Available
 - Optional Output Connectors Available

SAFETY APPROVALS















DESCRIPTION

The DTSPU21 series of AC/DC desktop power supplies provides up to 20 Watts of continuous output power. This series consists of single output models ranging from 5VDC to 50VDC with a 90~264VAC input voltage range. All units are UL 94V-1, RoHS, 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/cUL (UL 60950-1: 2nd edition) and TUV/GS (EN 60950-1: 2nd edition) safety approvals. The DTSPU21 series has three types of AC inlets available: IEC-320-C14 (Type "A"), IEC-320-C8 (Type "B"), and IEC-320-C6 (Type "C"). All units have been 100% burn-in tested.

MODEL SELECTION TABLE									
Model Number (1)	Input Voltage Range	Output Voltage (2)	Output Current	Total Regulation	Output Power				
DTSPU21x-102	90~264 VAC	5~6 VDC	3.00 ~ 2.50 A	±5%	15W				
DTSPU21x-103		6 ~ 8 VDC	2.30 ~ 1.87A	±5%	15W				
DTSPU21x-104		8 ~ 11 VDC	2.50 ~ 1.81 A	±5%	20W				
DTSPU21x-105		11 ~ 13 VDC	1.81 ~ 1.53 A	±5%	20W				
DTSPU21x-106		13 ~ 16 VDC	1.53 ~ 1.25 A	±5%	20W				
DTSPU21x-107		16 ~ 21 VDC	1.25 ~ 0.95 A	±4%	20W				
DTSPU21x-108		21 ~ 27 VDC	0.95 ~ 0.74 A	±4%	20W				
DTSPU21x-109		27 ~ 33 VDC	0.74 ~ 0.60 A	±3%	20W				
DTSPU21x-110		33 ~ 40 VDC	0.60 ~ 0.50 A	±3%	20W				
DTSPU21x-111		40 ~ 50 VDC	0.50 ~ 0.40 A	±3%	20W				

NOTES

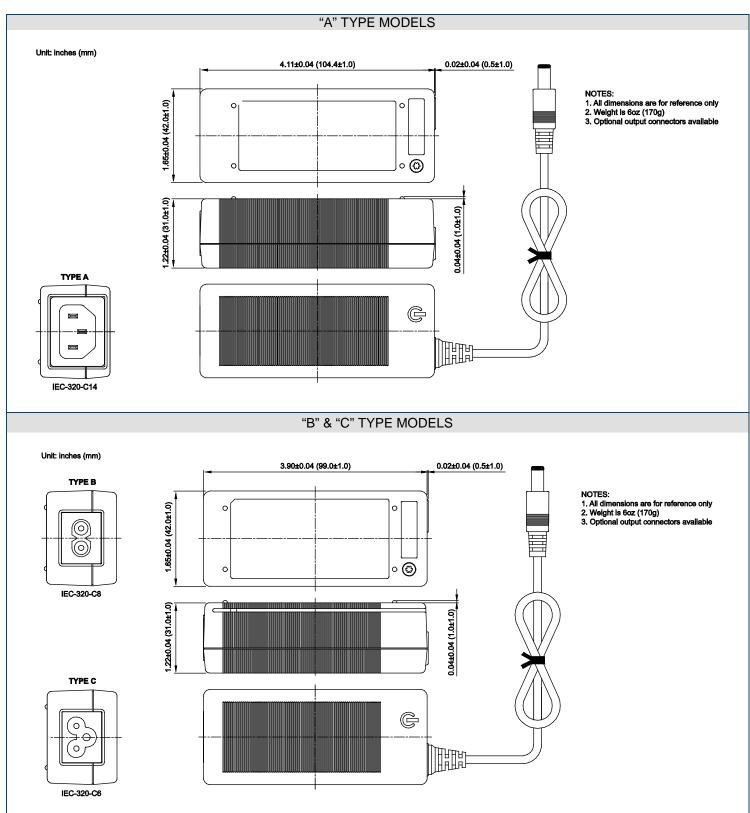
- 1. The "x" in the model represents the type of AC inlet connector. It can be "A" for IEC-320-C14 type, "B" for IEC-320-C8 type, or "C" for IEC-320-C6 type.
- 2. The output voltage is specified as a range (ex: 33~40VDC); the customer must specify what they would like the output voltage set at.



	sed on 25°C, Nominal Input Voltag	je, and Maximum Output Currei	nt unless oth	nerwise n	ioted.			
	eserve the right to change specificat	tions based on technological ac	lvances.					
SPECIFICATION	TEST CON	DITIONS	Min	Тур	Max	Unit		
INPUT SPECIFICATIONS								
1	Safety Approvals Input Voltage R	ange	100		240	\/^		
Input Voltage	Operating Input Voltage Range	J	90		264	VAC		
Input Frequency	operating input remage riange		47		63	Hz		
	Low Line 100V	AC, full load			0.5			
Input Current		AC, full load			0.3	Α		
		AC, full load, 25°C, cold start	25		50			
Inrush Current			50			Α		
No. Local Brown Construction		AC, full load, 25°C, cold start	50		100	14/		
No Load Power Consumption	230VAC, no load				0.3	W		
OUTPUT SPECIFICATIONS	_							
Output Voltage				See '	Table			
Line Regulation	LL to HL, full load		0.5		1	%		
Load Regulation	230VAC		3		5	%		
Output Power			See Table					
Output Current					See Table			
Ripple & Noise (peak to peak)	90VAC, full load			100	,,,,,,	mVp-		
Hold-up Time	110VAC, full load		8	.00		ms		
Start-up Time	100VAC, full load		J		3	S		
Transient Response Time	100VAC, Full load to half load				4	ms		
Temperature Coefficient	0~50°C				±0.04	%/°C		
PROTECTION								
Short Circuit Protection			L	Automatic	Recovery			
			,	tatornatio	rtocovery			
GENERAL SPECIFICATIONS								
Efficiency	230 VAC, full load		76		85	%		
Dielectric Withstanding Voltage	Primary to Secondary		4242			VDC		
Dielectric Withstanding Voltage	Primary to PE (Type A and Type	C only)	2550			VDC		
Isolation Resistance	Test Voltage = 500VDC		50			МΩ		
	T	ype A, Type C			0.75			
Leakage Current		уре В			0.25	mA		
ENVIRONMENTAL SPECIFICATION		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			0.20			
Operating Temperature	Derating linearly from 100% Load	at 40°C to 50% load at 70°C	0		+70	°C		
Storage Temperature	10~95% RH	1 at 10 0 to 0070 load at 70 0	-40		+85	°C		
Operating Humidity			0		95	%		
	Non-Condensing							
Storage Humidity	All Per		0		95	%		
Operating Altitude (Elevation)	All conditions				2000	M		
Vibration	10~500Hz, 10min/1cycle, 60 min.	each along X, Y, Z axes			5	G		
Electro Static Discharge	Air Discharge, IEC61000-4-2				8	kV		
Liectio Static Discharge	Contact Discharge, IEC61000-4-2	2			6	ΚV		
Cooling				Free air c	convection			
Flammability Rating		UL94V-1						
MTBF	MIL-HDBK-217F, 25°C		100,000			hours		
	WILL FIDDIN 2171, 25 O		100,000			riourc		
PHYSICAL SPECIFICATIONS				607 (170a)			
Weight					170g)			
	A type	4.11 x 1.65 x 1.22 in						
Dimensions (L x W x H)	71		(104.4 x 42.0 x 31.0 mm) 3.90 x 1.65 x 1.22 in					
,	B & C types							
	B & O types		(99		x 31.0 mr	n)		
	A Type			IEC-32	20-C14			
AC Inlets	B Type		IEC-3	20-C8				
	C Type				20-C6			
	- 1, po			120-3	_0 00			
SAFETY EMC & COMPLIANCE				(ENIOCO)	-0.4. and			
		LIL /-LIL /LIL COOFO 4 Ond - PM	- \ TI \ //^ ^					
Safety Approvals		UL/cUL (UL60950-1: 2 nd edition	_	(EIN609:	50-1: 2 ¹¹⁴ ec			
Safety Approvals EMI Requirements for CISPR-22	220VAC	UL/cUL (UL60950-1: 2 nd edition	В	(EN609	50-1: Z nd ec	Class		
Safety Approvals EMI Requirements for CISPR-22 EMI Requirements for FCC PART-15		UL/cUL (UL60950-1: 2 nd edition	B B			Class		
SAFETY, EMC, & COMPLIANCE Safety Approvals EMI Requirements for CISPR-22 EMI Requirements for FCC PART-15 Compliance	220VAC	UL/cUL (UL60950-1: 2 nd edition	B B	RoHS and	I UL 94V-1 Star 2.0, E	Class		

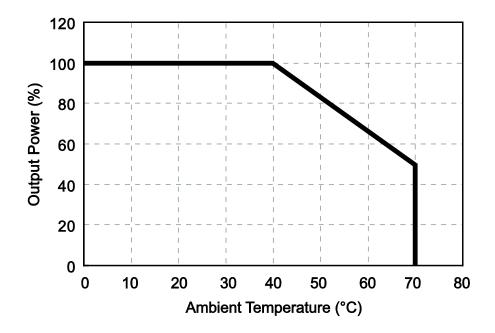


MECHANICAL DRAWINGS





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.

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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