



Size: 7.44in x 3.52in x 1.79in (189mm x 89.5mm x 45.5mm)

SPECIFICATIONS

FEATURES

- of 90 to 260VAC
- IEC-320-C14 Input Inlet
- Active Power Correction
- Optional ON/OFF Switch
- UL94V-1 min. Compliant
- Wide Operating Voltage Range Short Circuit, Over Voltage, and Over Load Protection
 - RoHS2 Compliant and DoE Level VI Compliant
 - UL 60905-1:2nd Edition, CSA C22.2 No.60950-1-07, EN60905-1:2005/A2:2013, and IEC 60950-1:2005/A2:2013 Safety Approvals

DESCRIPTION

The DTSPU150 series of AC/DC desktop power supplies offers up to 150 watts of output power in a 7.44" x 3.52" x 1.79" package. This series consists of single output models with a wide operating voltage range from 90 to 260VAC and an IEC-320-C14 input inlet. There is short circuit, over voltage, and over load protection available for each model as well as active power correction and optional on/off switch. This series has UL 60905-1:2nd Edition, CSA C22.2 No.60950-1-07, EN60905-1:2005/A2:2013, and IEC 60950-1:2005/A2:2013 safety approvals.

MODEL SELECTION TABLE								
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency		
DTSPU150-108	90-260VAC	24VDC	6.25A	120mVp-p	150W	89%		

SPECIFICATIONS							
All specification	ns are based on 25°C, Nominal Input Voltage, and Maximum Output Co We reserve the right to change specifications based on technological		herwise note	ed.			
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit		
INPUT SPECIFICATIONS							
Innuit Valtage Dange	Safety Approval Input Voltage Range	100		240	VAC		
Input Voltage Range	Operate Voltage Range	90		260	VAC		
Input Frequency		47	47		Hz		
Power Factor Correction	Io=Full Load, Vin=240VAC 0.95			1			
Instruct Comment	Low Line, Full Load, Vin=100VAC		1.89		А		
Input Current	High Line, Full Load, Vin=240VAC		0.78				
Inrush Current	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC			30	Α		
Inrush Current	High Line, Full Load, 25°C, Cool Start, Vin=240VAC			75	A		
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA		
OUTPUT SPECIFICATIONS							
Output Voltage	age			See Table			
Line Regulation ⁽³⁾	Full Load, Vin=100~120VAC			1	%		
Load Regulation ⁽⁴⁾	Vin=230VAC, 10~90% Load Change at Condition		5		%		
Output Power			See Table				
Output Current			See '	Table			
Ripple & Noise ⁽⁵⁾			120		mVp-p		
Transient Response Time	lo=Full Load to Half Load, Vin=110			4	mS		
Hold-Up Time ⁽⁶⁾	Full Load, Vin=100VAC		20		mS		
Start-Up Time	Full Load, Vin=100~240VAC			2	S		
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C		
PROTECTION							
Short Circuit Protection			Automatic	Recovery			
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%		
Over Voltage Protection		112		132	%		
ENVIRONMENTAL SPECIFICATIO	NS	<u> </u>					
Operating Temperature	Derate linearly from 100% load at 40°C to 50% load at 70°C	0		70	°C		
Storage Temperature	10~95% RH	-40		85	°C		
Operating Humidity	Non-Condensing	0		95	%RH		
Storage Humidity		0		95	%RH		
Operating Altitude	All conditions			2000	m		
Vibration	10~500Hz, 10min./cycle, 60min. each along X, Y, Z axes			5	G		
MTBF	Operating temperature at 25°C, per MIL-HDBK-217F	100,000			Hours		



SPECIFICATIONS

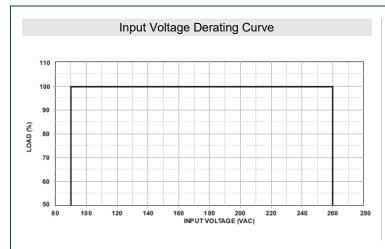
SPECIFICATIONS								
All specification		Input Voltage, and Maximum Output Current ge specifications based on technological adv		nerwise note	ed.			
SPECIFICATION		TEST CONDITIONS			Max	Unit		
GENERAL SPECIFICATIONS								
Efficiency			See Table					
Dielectric Withstanding Voltage	Primary to Secondary			4242	VDC			
Dielectric Withstanding Voltage	Primary to PE	to PE				VDC		
Surge Voltage	Line-Neutral				1	kV		
<u> </u>	Line-PE & Neutral-PE				2			
PHYSICAL SPECIFICATIONS								
Weight	27.44~28.22oz (778~80					<u> </u>		
Dimensions (L x W x H)	7.44in x 3.52in x 1.79in							
					(189mm x 89.5mm x 45.5mm)			
Output Cable					AWG#16*2C/4FT			
Cooling					Free Air Convection			
Flammability Rating			UL94V-1					
SAFETY CHARACTERISTICS		111 20050 4 and 5 111 (0)						
		UL 60950-1:2 nd Edition ⁽⁹⁾ CSA C22.2 No.60950-1-07						
Safety Approvals								
, , , ,	EN60950-1:2006/A2:2013							
	IEC 60950-1:2005/A2:2013 Compliance to EN55022 (CISPR22) Class E							
EMC Emission								
Durata ation Classes		FCC Part-15				Class B		
Protection Classes		Air Diacharge			0	Class I		
Electro Static Discharge	IEC61000-4-2	Air Discharge			8	kV		
- J		Contact Discharge			4			

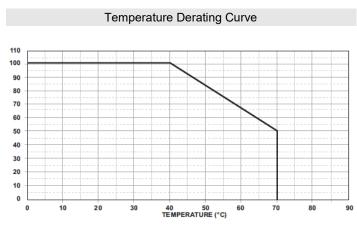
NOTES

- 1. Output can provide up to peak load when power supply starts up. Staying in more than rated load continually is not allowed.
- 2. At factory, each output is checked to be within voltage accuracy in 60% rated load condition.
- 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. This series is required to use AWG#16*2C/4FT output cable. Regulation and efficiency will be changed by modified output cable.
- 8. Optional output connectors are available, please contact factory for more details.
- 9. This product is Listed to applicable standards and requirements by UL.

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

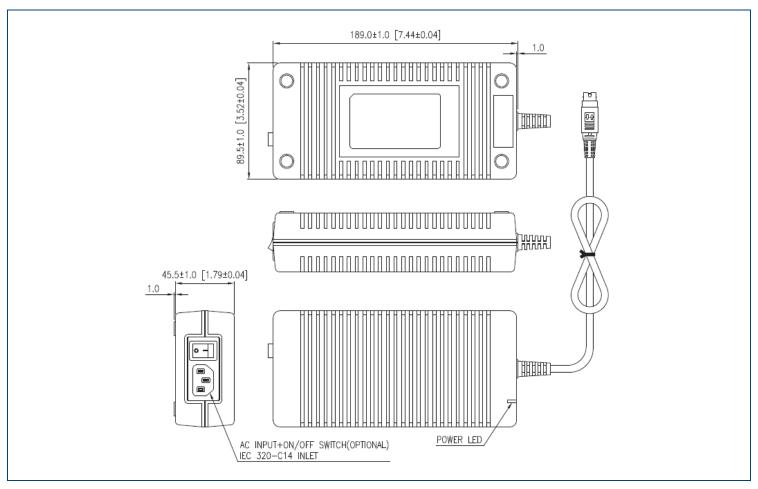
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COMPANY INFORMATION

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.

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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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