



Size: 6.61in x 3.06in x 1.78in (168mm x 77.6mm x 45.2mm)

FEATURES

- of 90~260VAC
- Active Power Factor Correction
- IEC-320-C14 Input Inlet
- Cooling by Free Air Convection
- RoHS2 Compliant
- DoE Level VI Compliant
- Wide Operating Input Voltage Range Over Voltage (Latch Off) and Short Circuit Protection
 - Protection Class I
 - CAN/CSA C22.2 No. 62368-1-1, EN62368-1:2014+A11:2017, IEC62368-1, UL62368-1: 2nd, EN60950-1:2006/A2:2013, and IEC 60950-1:2005/A2:2013 Safety Approvals

APPLICATIONS

- Industrial PC
- Power Tools
- Audio & Video Equipment
- Inspection Analyzer

DESCRIPTION

The DTSPU151A series of AC/DC desktop power supplies offers up to 150 watts of output power in a 6.61" x 3.06" x 1.78" package with an IEC-320-C14 input inlet. This series consists of single output models with wide operating input voltage range of 90~260VAC. Each model in this series has active power factor correction, is RoHS2 and Level VI compliant, and is cooled by free air convection. This series has CAN/CSA C22.2 No. 62368-1-1, EN62368-1:2014+A11:2017, IEC62368-1, UL62368-1: 2nd, EN60950-1:2006/A2:2013, and IEC 60950-1:2005/A2:2013 safety approvals.

MODEL SELECTION TABLE								
Model Number	Operating Input Voltage Range	Output Voltage	Output Current	Ripple & Noise ⁽⁵⁾	Total Regulation	Efficiency ⁽⁷⁾	Output Power	
DTSPU151A-105	90~260VAC	12VDC	12.5A	120mVp-p	±5%	88%		
DTSPU151A-106		15VDC	10.0A	150mVp-p	±5%	88%		
DTSPU151A-107		19VDC	7.89A	190mVp-p	±5%	89%		
DTSPU151A-108		24VDC	6.25A	240mVp-p	±4%	89%	150W	
DTSPU151A-109		30VDC	5.00A	300mVp-p	±3%	90%		
DTSPU151A-110		36VDC	4.16A	300mVp-p	±3%	90%		
DTSPU151A-111		48VDC	3.12A	300mVp-p	±3%	91%		

SPECIFICATION	ONS						
	All specifications	s are based on 25°C, Nominal Input Voltage, and Maximum Output Curre We reserve the right to change specifications based on technological ac		herwise note	ed.		
SPECIFICATION	N	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFIC	CATIONS						
Input Voltage Range		Safety Approval & Specification in Label	100		240	VAC	
		Input Operating Voltage Range, See Input Voltage Derating Curve	90		260		
Input Frequency		Sine Wave	47		63	Hz	
l	Low Line	Full Load, Vin=100VAC		2		Α	
Input Current	High Line	Full Load, Vin=240VAC		0.8		А	
Inrush Current	Low Line	Full Load, 25°C, Cool Start, Vin=100VAC			60	Α	
	High Line	Full Load, 25°C, Cool Start, Vin=240VAC			120	А	
Safety Ground Leakage Current		Vin=240VAC, Fi=60Hz			0.75	mA	
Power Factor Correction			0.95		1		
OUTPUT SPECIF	FICATIONS						
Output Voltage			See Table				
Line Regulation ⁽³⁾		Full Load, Vin=100~120VAC or 200~240VAC			1	%	
Total Regulation			See Table				
Output Power			See Table				
Output Current			See Table				
Ripple & Noise ⁽⁵⁾			See Table				
Time of Transient Response		Io=Full Load to Half Load, Vin=110VAC			4	ms	
No Load Consumption				0.21		W	
Hold-Up Time ⁽⁶⁾		Full Load, Vin=110VAC		16		ms	
Start-Up Time		Full Load, Vin=100~240VAC			2	S	
Temperature Coefficient		All Conditions			±0.04	%/°C	



SPECIFICATIONS

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

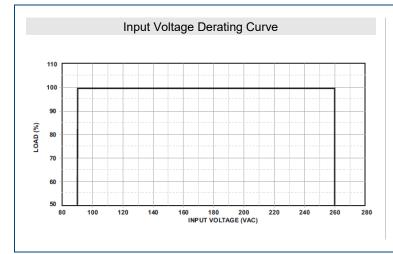
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
PROTECTION						
Short Circuit Protection			Automatic Recovery			
Over Voltage Protection Latch Off, Recycle Input to Reset		112		132	%	
ENVIRONMENTAL SPECIFICATIO	NS					
Operating Temperature	See Derating Curve, Derate linearly from 100% load at 40°C to 50% load at 70°C	-20		70	°C	
Storage Temperature	10~95%RH	-40 85		85	°C	
Operating Humidity	Non-Condensing	0		95	%RH	
Storage Humidity	0		95	%RH		
Operating Altitude (Elevation)	All Conditions			5000	m	
Vibration	10~500Hz, 10min./1cycle, 60min. each along X,Y,Z axes			5	G	
Operating Altitude			5000		m	
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100,000			Hours	
GENERAL SPECIFICATIONS						
Efficiency ⁽⁷⁾	Full Load, Vin=230VAC		See	Table		
Insulation Resistance	Primary to Secondary, 500VDC, 25°C/70%RH	50			ΜΩ	
Distantis Millerton die e Malte e	Primary to Secondary, Limit Current <10mA			4242	\/D0	
Dielectric Withstanding Voltage	Primary to PE, Limit Current <10mA			2121	VDC	
PHYSICAL SPECIFICATIONS						
Weight		Approx. 1.59lb~1.65lb (720~750g)			750g)	
B: (1 M/ 11)		6.61in x 3.06in x 1.78in				
Dimensions (L x W x H)		(168mm x 77.6mm x 45.2mm)			nm)	
Cooling		Free Air Convection				
SAFETY CHARACTERISTICS		·				
Safety Approvals ⁽⁹⁾	CAN/CSA C22.2 No. 62368-1-1 EN62368-1:2014+A11:2017 IEC62368-1 UL62368-1:2 nd EN60950-1:2006/A2:2013 IEC 60950-1:2005/A2:2013					
EMC Emission	Compliance to EN55032 (CISPR32) EN55035				Class B	
Floatra Statia Disabarga	Air Discharge, IEC61000-4-2			8	kV	
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4		
Curae Valtage	Line-Neutral			1	kV	
Surge Voltage	Line-PE & Neutral-PE			2		
Protection Class Class I				ass I		

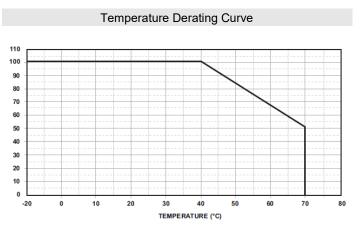
NOTES

- 1. Output can provide up to peak load when the power supply starts up. Continually staying in more than rated load is not allowed.
- 2. Each output is checked to be within voltage accuracy at factory 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 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).
- 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. Efficiency is measured at rated load and nominal line.
- Output Cables:
 - DTSPU151A-105~107 required to use AWG#16/5C/4FT output cable.
 - DTSPU151-108~111 required to use AWG#14/2C/4FT output cable
 - DTSPU151-105~111 output cable must have core.
 - The regulation and efficiency will be changed by modified output cable.
 - 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.

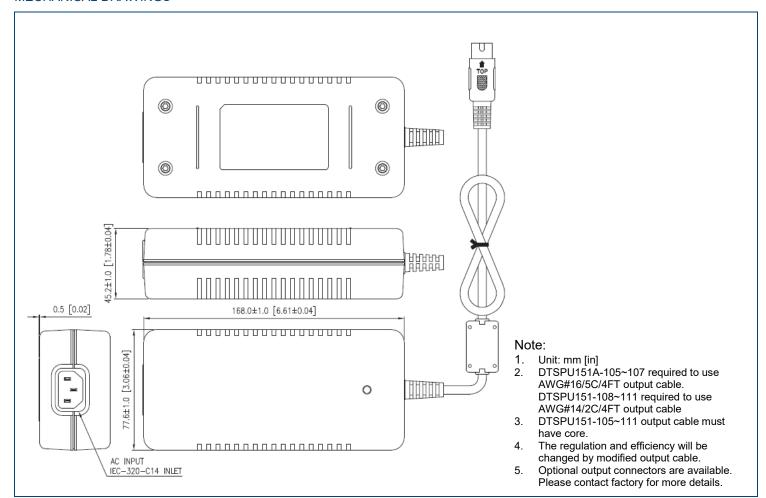


DERATING CURVES





MECHANICAL DRAWINGS -





Rev B

150 Watts AC/DC Desktop Power Supply Switching Mode Single Output



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.

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