



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

OPTIONS

- Output Cable
- ON/OFF Switch

FEATURES

- Class I
- Single Output
- RoHS2 Compliant
- IEC-320-C14 Input Inlet
- Over Voltage, Short Circuit, and Over Load Protection
- Efficiency Level VI
- Active Power Factor Correction
- Optional Output Connectors Available
- Output Voltages available from 12VDC to 55VDC
- Optional On/Off Switch
- Wide Input Voltage Range: 90 to 260VAC, 47~63Hz

APPLICATIONS

- Printer
- Industrial PC
- Power Tools
- DC Moto
- AV Equipment
- LED Lighting

DESCRIPTION

The DTSPU131 series of AC/DC desktop switching power supplies provides 130 watts of continuous output power. This series consists of single output models with a 90~260VAC input voltage range and an IEC-320-C14 input inlet connector for worldwide applications. These supplies also have short circuit, over voltage, and over load protection. All units are UL94V-1, RoHS2 and Level VI compliant, and are 100% burned in and tested. All models also meet FCC Part-15 class B and CISPR-22 class B emission limits and have UL/c-CUL, TUV/GS, and CE marking conformity assessment.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage ⁽¹⁾	Output Current		Ripple & Noise ⁽³⁾	Total Regulation	Output Power	No Load Power Consumption	Efficiency
			Min Load	Max Load					
DTSPU131-105	90~260VAC	12~13VDC	10A	10.84A	130mVp-p	±5%	130W	0.21W	88%
DTSPU131-106		13~16VDC	8.12A	10A	150mVp-p	±5%			89%
DTSPU131-107		16~21VDC	6.19A	8.12A	150mVp-p	±5%			89%
DTSPU131-108		21~27VDC	4.81A	6.19A	200mVp-p	±3%			89%
DTSPU131-109		27~33VDC	3.93A	4.81A	200mVp-p	±3%			89%
DTSPU131-110		33~40VDC	3.25A	3.93A	250mVp-p	±3%			89%
DTSPU131-111		40~50VDC	2.60A	3.25A	250mVp-p	±3%			89%
DTSPU131-112		50~55VDC	2.36A	2.60A	300mVp-p	±3%			89%

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.

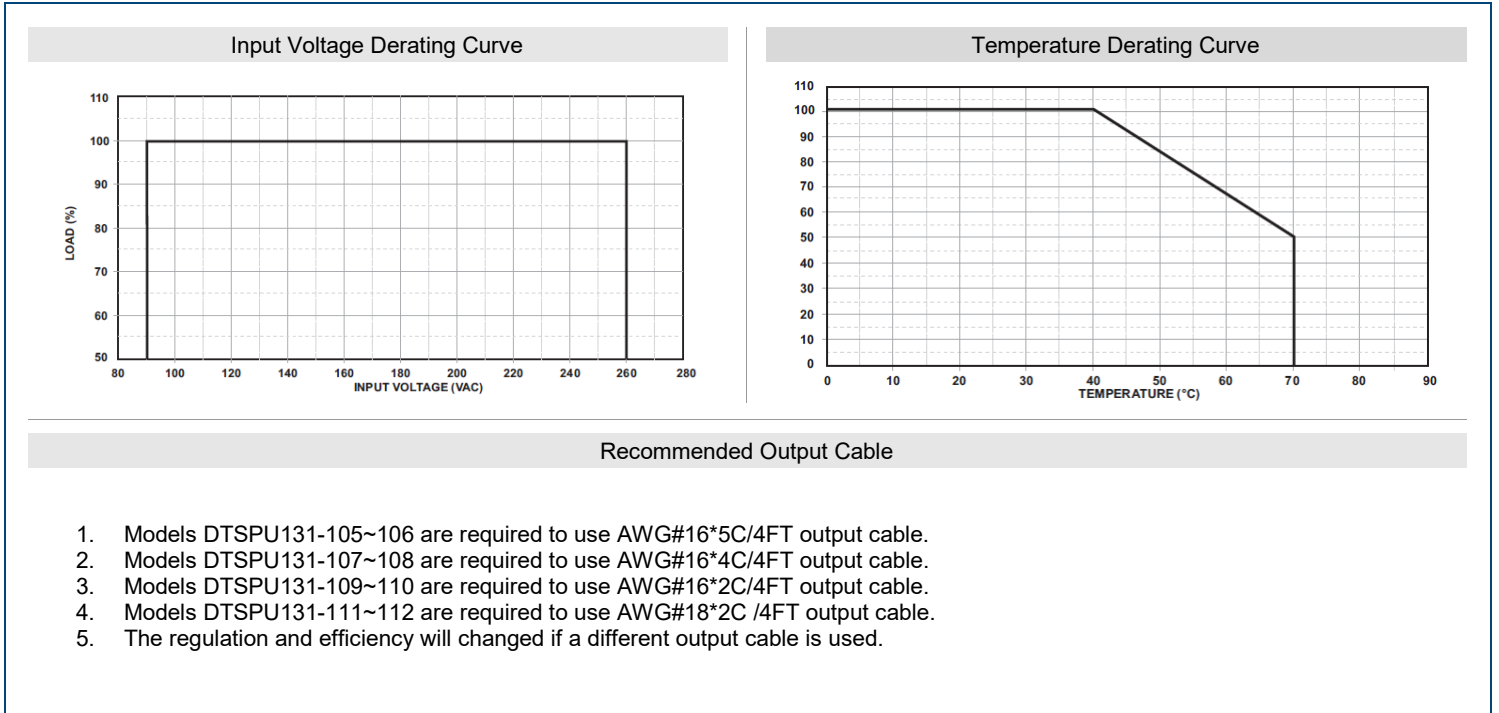
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range	Safety Approval Input Voltage Range	100		264	VAC
	Operate Voltage Range	90		260	
Input Frequency		47		63	Hz
Input Current	Low Line Full Load, Vin=100VAC		1.58		A
	High Line Full Load, Vin=240VAC		0.64		
Input Inrush Current	Low Line Full Load, 25°C, Cool Start, Vin=100VAC			30	A
	High Line Full Load, 25°C, Cool Start, Vin=240VAC			72	
Power Factor Correction	Io=Full Load, Vin=240VAC	0.95		1	
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Line Regulation ⁽⁴⁾	Full load, Vin=100~120VAC			1	%
Load Regulation ⁽⁵⁾	Vin=230VAC, 10~90% Load Change at Condition		See Table		
Output Power		See Table			
Output Current		See Table			
Ripple & Noise ⁽³⁾		See Table			
Transient Response Time	Io=Full Load to Half Load, Vin=110VAC			4	mS
Start-Up Time	Full Load, Vin=100~240VAC			2	S
Hold-Up Time ⁽⁶⁾	Full Load, Vin=100VAC	16			mS
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C
PROTECTION					
Over Voltage Protection	Crowbar Mode	112		132	%
Over Load Protection	Recovers Automatically After Fault is Removed	110		150	%
Short Circuit Protection		Auto Recovery			
ENVIRONMENTAL SPECIFICATIONS					
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
Vibration	10~500Hz, 10min./1 cycle, 60 min. each along X, Y, Z, axes			5	G
Operating Altitude (Elevation)	All Conditions			3000	m
Cooling		Free Air Convection			
Flammability Rating		UL94V-1			
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency	Full Load, Vin=230VAC	See Table			
Dielectric Withstanding Voltage	Primary to Secondary			4242	VDC
	Primary to Ground			2121	
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Surge Voltage	Line-Neutral			1	kV
	Line-PE & Neutral-PE			2	
PHYSICAL SPECIFICATIONS					
Weight		Approx. 27.4~28.2oz (778~800g)			
Dimensions (L x W x H)		7.44 x 3.52 x 1.79in (189 x 89.5 x 45.5mm)			
SAFETY & EMC CHARACTERISTICS					
Safety Approvals		UL60950-1: 2 nd Edition ⁽⁷⁾ CSA C22.2 No.60950-1-07 EN 60950-1:2006/A2:2013 IEC 60905-1:2005/A2:2013			
EMC Emission	Compliance to EN55022 (CISPR22)				Class B
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
	Contact Discharge, IEC61000-4-2			4	

NOTES

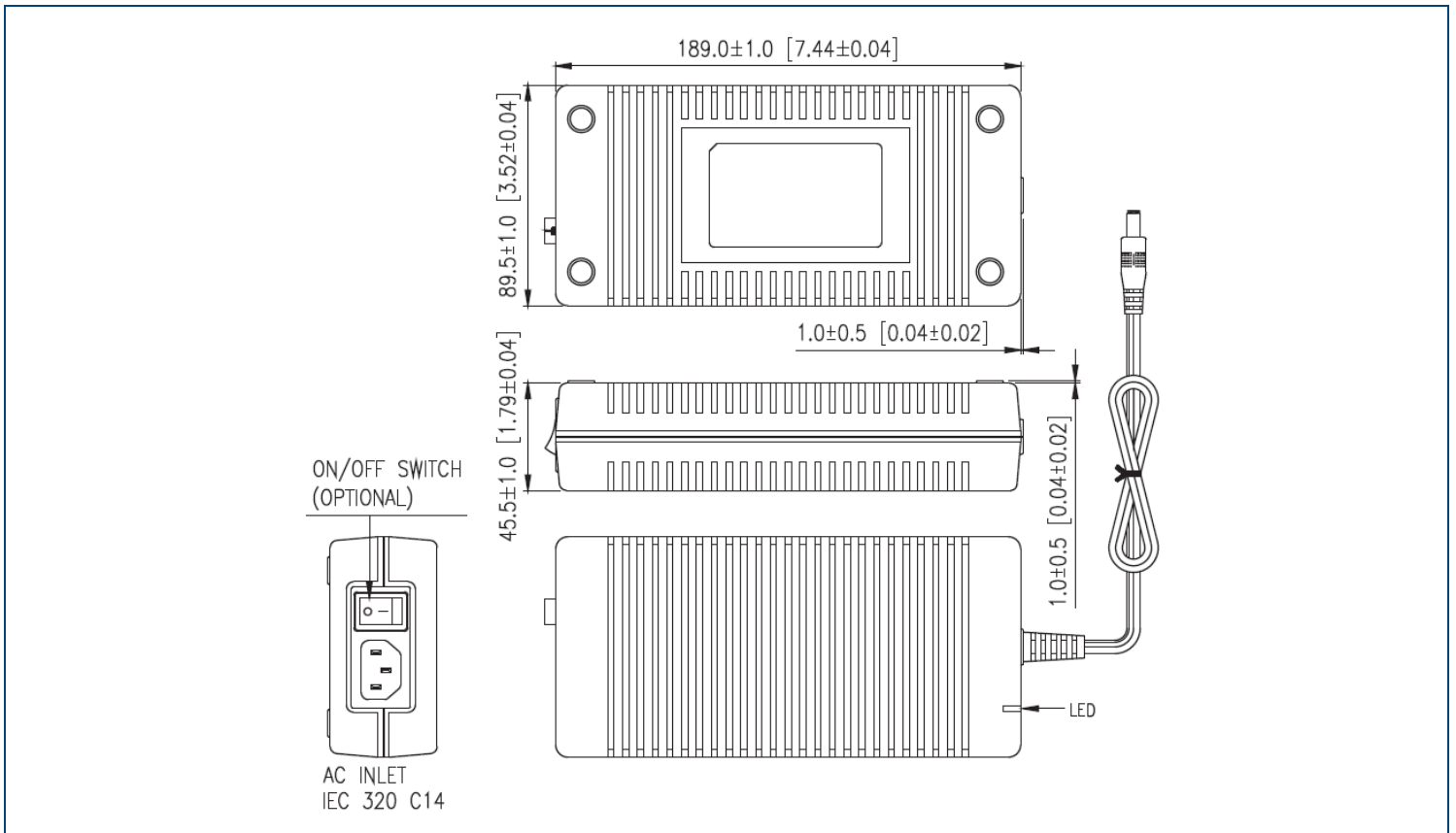
- (1) Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load is not allowed.
- (2) At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- (3) Ripple and Noise is measured from peak to peak with a bandwidth limit of 20MHz (measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
- (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) 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 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.

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