



Size: 5.75in x 2.97in x 1.69in (146mm x 75.5mm x 43mm)

FEATURES

- 100~240VAC
- Dual or Triple Outputs
- IEC-320-C14 or IEC-320-C6 AC
- Universal Input Voltage Range of Optional Output Connectors Available
 - Compact Package
 - Short Circuit and Over Voltage Protection
 - UL 1950, CSA C22.2, EN60950-1, and IEC60905-1 Safety Approvals

DESCRIPTION

The DTPSU50 series of AC/DC desktop power supplies offers 50 watts of output power in a 5.75" x 2.97" x 1.69" compact package. This series consists of dual or triple output models with a universal input voltage range of 100~240VAC. Two different AC inlets are available: IEC-320-C14 or IEC-320-C6 and there are also optional output connectors available. This series has short circuit and over voltage protection and UL 1950, CSA C22.2, EN60905-1, and IEC60905-1 safety approvals.

MODEL SELECTION TABLE								
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage				Output Dawar		
		V1	V2	V3	I1	I2	13	Output Power
DTPSU50A-12X	100~240VAC	+5VDC	+9VDC	-	4.50A	1.70A	-	37.8W
DTPSU50A-13X		+5VDC	+12VDC	-	4.00A	2.00A	-	44W
DTPSU50A-14X		+5VDC	+15VDC	-	4.00A	1.80A	-	47W
DTPSU50A-16X		+5VDC	+24VDC	-	5.00A	1.00A	-	49W
DTPSU50A-16-1X		+5VDC	+24VDC	-	2.00A	1.50A	-	46W
DTPSU50A-36X		+12VDC	+24VDC	-	2.20A	1.00A	-	50.4W
DTPSU50A-13AX		+5VDC	+12VDC	-5VDC	4.00A	2.00A	0.50A	46.5W
DTPSU50A-13DX		+5VDC	-5VDC +12VDC -12VDC		4.00A	2.00A	0.50A	50W
DTPSU50A-14EX		+5VDC	+15VDC	-15VDC	4.00A	1.50A	0.50A	50W
DTPSU50A-13D-1X		+5VDC	+12VDC	-12VDC	5.00A	1.00A	0.25A	40W

SPECIFICATIONS						
All specific	cations are based on 25°C, Nominal Input Voltage, and Maximum Output Currer We reserve the right to change specifications based on technological ad		herwise note	ed.		
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS						
Input Voltage Range		100		240	VAC	
Input Frequency		50		60	Hz	
Input Current				1.6	Α	
Inrush Current	@115VAC, 25°C, Cold Start		15		_	
inrush Current	@230VAC, 25°C, Cold Start		30		A	
Leakage Current	@240VAC/50Hz			3.5	mA	
OUTPUT SPECIFICATIONS					-	
Output Voltage		See Table				
Voltage Tolerance			±5		%	
Line Regulation	For any input voltage change between input voltage range			±1	%	
Load Regulation	Variations from minimum to maximum output current		±5		%	
Output Power		See Table				
Output Current		See Table				
Ripple				1	%pk-pk	
Transient Response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change					
Hold-Up Time		10			mSec	
Temperature Coefficient	All Outputs			±0.04	%/°C	
PROTECTION						
Short Circuit Protection		Yes				
Over Voltage Protection	Provided on outputs set at 112~132% of its nominal output voltage					



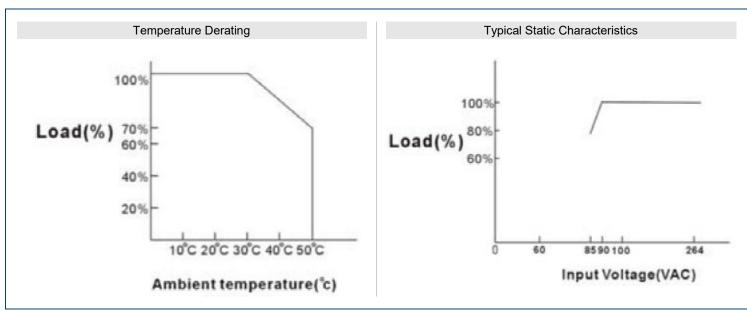
SPECIFICATIONS							
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.							
We reserve the right to change specifications based on technological advances.							
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit		
ENVIRONMENTAL SPECIFICAT	TIONS						
Operating Temperature		0		30	°C		
Storage Temperature		-40		85	°C		
Relative Humidity	Non-Condensing	5		95	%		
Derating	Derated from 100% at +30°C linearly to 60% at 40°C						
MTBF	@Full Load, 25°C, Cold Start	50,000			Hours		
GENERAL SPECIFICATIONS							
Efficiency	@Full Output	65			%		
Withstand Voltage			4242		VDC		
Insulation Resistance	From Input to Output	50			МΩ		
PHYSICAL SPECIFICATIONS							
Weight		10.58~12.35oz (300-350g)			g)		
Dimensions (L x W x H)		5.75in x 2.97in x 1.69in					
		(146mm x 75.5mm x 43mm)					
SAFETY CHARACTERISTICS							
Safety Approvals	UL60950-1 ⁽³⁾ ; CSA C22.2, EN60950-1, IEC60950-1						
EMC	CE: Emission: EN55022; EN61000-3-2,3						
LIVIO	Immunity: IEC61000-4-2, 3, 4, 5, 6, 11						

NOTES

- 1. "X" in model number indicates the AC Inlet. "X" can either be "A" for IEC-320-C14 inlet or "B" for IEC-320-C6 inlet.
- 2. Optional output connectors available, contact factory for more details.
- 3. This product is Listed to applicable standards and requirements by UL.

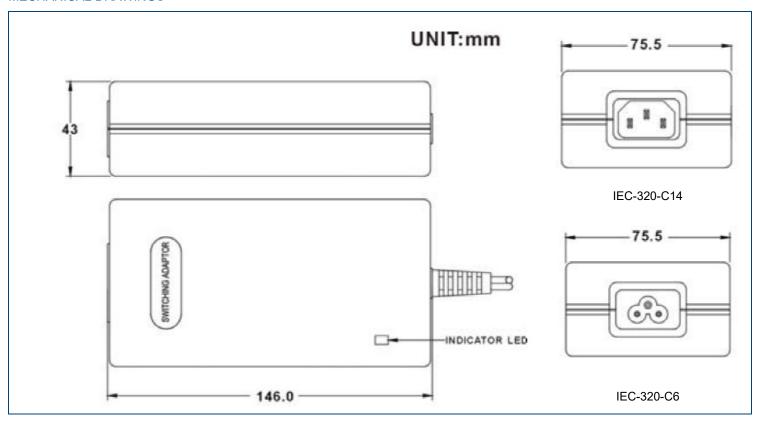
*Due to advances in technology, specifications subject to change without notice.

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.

Contact Wall Industries for further information:

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