

FEATURES

- 100% Burn-in
- Class I Insulation
- IEC-320-C14 Input Inlet
- Active Power Factor Correction
- Optional Output Connectors Available
- Output Voltage Protection (Crowbar Design)
- CEC Level V and Energy Star 2.0 Compliant
- -20°C ~ 70°C Operating Temperature Range
- Wide Input Voltage Range: 90 to 260VAC, 47~63Hz
- Input Surge Current, Over Voltage, and Over Load Protection



DESCRIPTION

The DTIPU80 series of AC/DC desktop switching mode power supplies provides 80 watts of continuous output power. This series consists of single output supplies with a universal input range of 90~260VAC and an IEC-320-C14 AC input connector. Some features include active power factor correction, -20°C~+70°C operating temperature range, and input surge current, over voltage, and over load protection. All supplies are CEC Level V, Energy Star 2.0, and UL 94V-1 compliant. This series meets FCC-Part-15 class B and CISPR-22 class B emission limits and are designed to comply with UL/c-UL (UL 60950-1), TUV/GS (EN 60950-1), and new CE requirements. All models are 100% burn-in tested.

SPECIFICATIONS: DTIPU80 Series						
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	Nom	Max	Unit	
INPUT (V_{in})						
Operating Voltage Range		90		260	VAC	
Input Frequency		47		63	Hz	
Input Current (Low Line)	Io = Full Load, Vin = 115VAC			1.07	A	
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.5	A	
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		42	45	A	
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		88	92	A	
Safety Ground Leakage Current	Io = Full Load, Vin = 240VAC		0.5	0.75	mA	
Start-Up Time	Io = Full Load, Vin = 100VAC	0.3	1	2	s	
OUTPUT (V_o)						
Output Voltage Range		See Rating Chart				
Load Regulation	Vin = 230VAC		3	7	%	
Line Regulation	Io = Full Load		0.5	1	%	
Output Power	Vin = 90 to 260VAC	0		80	W	
Output Current Range		See Rating Chart				
Ripple & Noise (peak to peak)	Full Load, Vin = 90VAC		0.5	1	%	
Transient Response Time	Io = Full Load to Half Load, Vin = 100VAC			4	ms	
Hold-Up Time	Io = Full Load, Vin = 100VAC	16			ms	
PROTECTION						
Over Voltage Protection		112		132	%	
Over Current Protection		110		150	%	
GENERAL						
Efficiency	Io = Full Load, Vin = 230VAC		87		%	
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC	
Dielectric Withstanding Voltage For Primary to Ground	Primary to Ground	2121			VDC	
Isolation Resistance	Test Voltage = 500VDC	50			MΩ	
Power Factor Correction	Io = Full Load, Vin = 90~260VAC	0.95	0.97	1		
ENVIRONMENTAL						
Operating Temperature	Derates linearly from 100% Load at 40°C to 50% load at 70°C	-20		+70	°C	
Storage Temperature		-40		+85	°C	
Relative Humidity		5		95	%	
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C	
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100,000 hours				
PHYSICAL						
Weight		Approximately 600 ~ 700 grams				
Dimensions (L x W x H)		5.75 x 2.99 x 1.69 inches 146.0 x 76.0 x 43.0 mm				
SAFETY						
EMI Requirements for CISPR-22	Vin = 220VAC	B			Class	
EMI Requirements for FCC PART-15	Vin = 110VAC	B			Class	

MODEL SELECTION TABLE

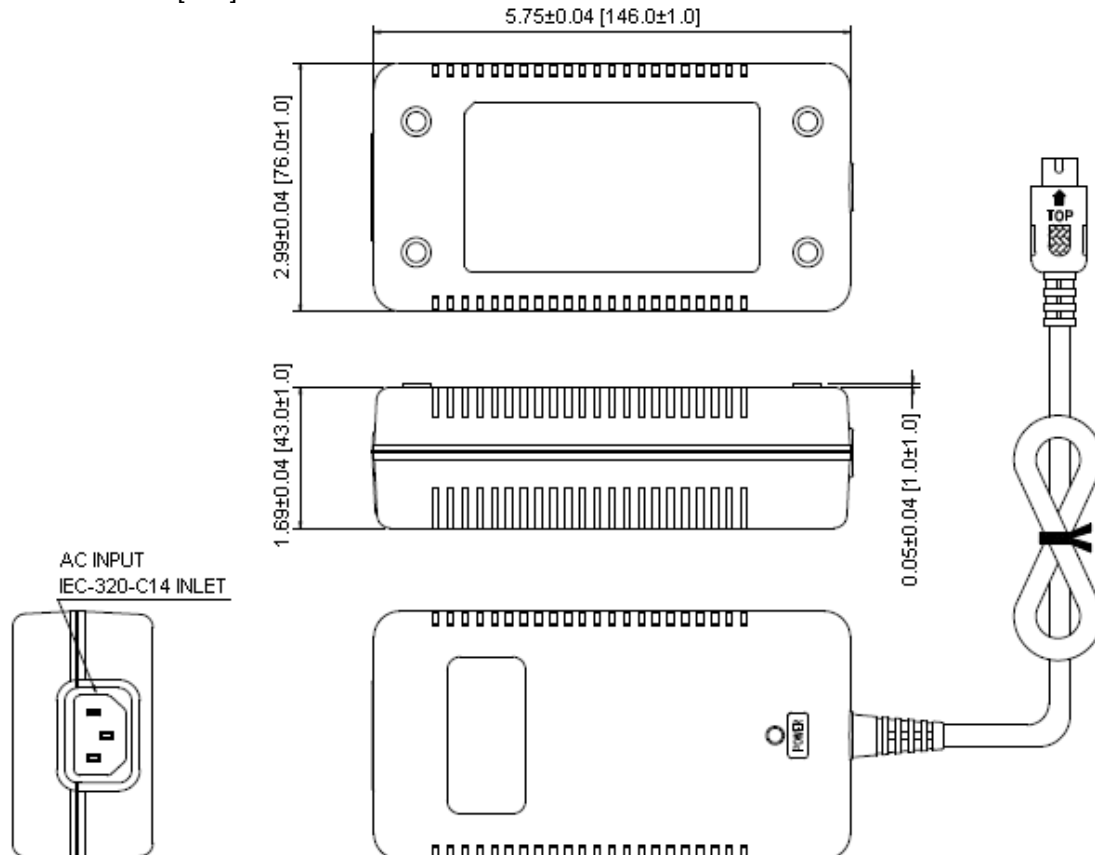
Model Number	Input Voltage Range	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Output Power
*DTIPU80-105	90 ~ 260 VAC	13 VDC	11 ~ 13 VDC	7.27 ~ 6.15 A	5%	80W
*DTIPU80-106	90 ~ 260 VAC	16 VDC	13 ~ 16 VDC	6.15 ~ 5.00 A	5%	80W
*DTIPU80-107	90 ~ 260 VAC	21 VDC	16 ~ 21 VDC	5.00 ~ 3.80 A	5%	80W
*DTIPU80-108	90 ~ 260 VAC	27 VDC	21 ~ 27 VDC	3.80 ~ 2.96 A	5%	80W
*DTIPU80-109	90 ~ 260 VAC	33 VDC	27 ~ 33 VDC	2.96 ~ 2.42 A	5%	80W
DTIPU80-110	90 ~ 260 VAC	40 VDC	33 ~ 40 VDC	2.42 ~ 2.00 A	5%	80W
DTIPU80-111	90 ~ 260 VAC	48 VDC	40 ~ 48 VDC	2.00 ~ 1.66 A	5%	80W

NOTES

- The output voltage is specified as a range (Ex: 40 ~ 48VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
- The “*” symbol means PSE approval.
- Models with output voltages under 30VDC have been approved by TUV/PSE.
- Optional output connectors are available. Please call factory for ordering details.
- This product is Listed to applicable standards and requirements by UL.
**Due to advances in technology, specifications subject to change without notice.*

MECHANICAL DRAWING

Unit: inches [mm]





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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