

FEATURES

- 100% Burn-in
- Class I Insulation
- IEC-320-C14 Input Inlet
- CEC and Energy Star Compliant
- No Load Power Consumption < 0.5
- Optional Output Connectors Available
- Over Voltage and Over Current Protection
- Over Voltage Protection (Crowbar Design)
- -20°C ~ 70°C Operating Temperature Range
- Wide Input Voltage Range: 90 to 264VAC, 47~63Hz



DESCRIPTION

The DTIPU68 series of AC/DC desktop switching mode power supplies provides 80 watts peak output power. This series consists of single output supplies with a universal input range of 90~264VAC and an IEC-320-C14 AC input connector. Some features include no load power consumption < 0.5, -20°C~+70°C operating temperature range, and over voltage and over current protection. All supplies are CEC, Energy Star, and UL 94V-1 min 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. With the delay buffer duration of over current protection a large amount of current can be acquired and the LPS safety requirement can be met which is very useful for motor drivers/devices (peak load). All models are 100% burn-in tested.

SPECIFICATIONS: DTIPU68 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		264	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	I _o = Full Load, V _{in} = 115VAC			1	A
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC			0.5	A
Inrush Current (Low Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 115VAC		12	15	A
Inrush Current (High Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 230VAC		26	30	A
Safety Ground Leakage Current	I _o = Full Load, V _{in} = 240VAC		0.5	0.75	mA
Start-Up Time	I _o = Full Load, V _{in} = 100VAC	0.3		0.5	s
OUTPUT (V_o)					
Output Voltage Range		See Rating Chart			
Load Regulation	V _{in} = 230VAC		3	5	%
Line Regulation	I _o = Full Load		0.5	1	%
Output Power	V _{in} = 90 to 264VAC	0		60	W
Output Current Range		See Rating Chart			
Ripple & Noise (peak to peak)	Full Load, V _{in} = 90VAC		0.5	1	%
Transient Response Time	I _o = Full Load to Half Load, V _{in} = 100VAC			4	ms
Hold-Up Time	I _o = Full Load, V _{in} = 100VAC	16			ms
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	I _o = Full Load, V _{in} = 230VAC	84			%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
Dielectric Withstanding Voltage	Primary to Ground	2121			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
No Load Power Consumption	No load, V _{in} =240VAC		0.3	0.5	W
ENVIRONMENTAL					
Operating Temperature	Derates linearly from 100% Load at 50°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	130,000 hours			
PHYSICAL					
Weight		Approximately 275 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	V _{in} = 220VAC	B			Class
EMI Requirements for FCC PART-15	V _{in} = 110VAC	B			Class

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Preset Voltage	Output Voltage Range	Output Current	Total Regulation ⁽³⁾	Output Power
DTIPU68-105	90 ~ 264 VAC	13 VDC	11 ~ 13 VDC	6.66 A	3%	80Wpk
DTIPU68-108	90 ~ 264 VAC	27 VDC	21 ~ 27 VDC	3.33 A	2%	80Wpk

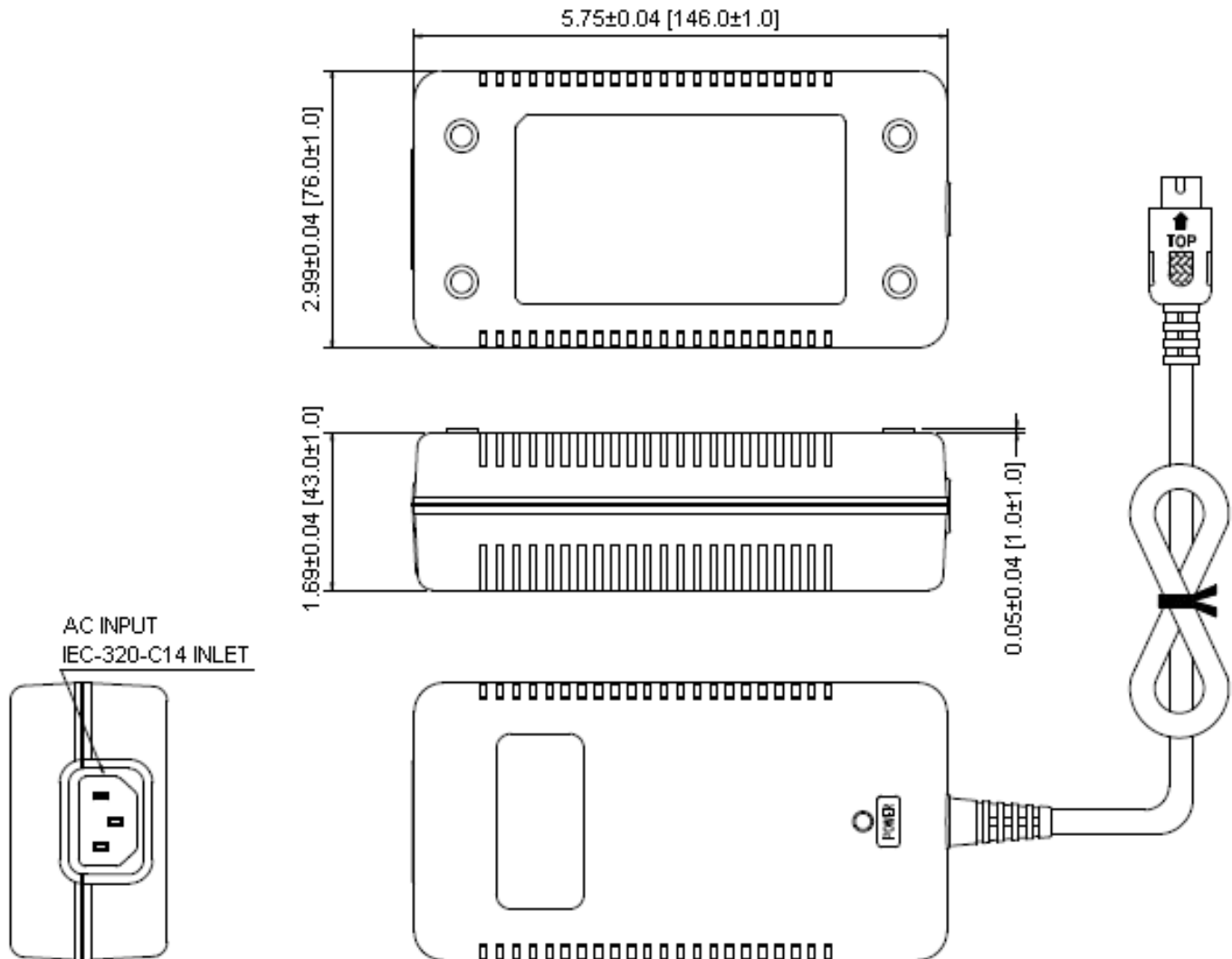
NOTES

1. The output voltage is specified as a range (Ex: 21 ~ 27VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
2. The output voltage ≥ 12 VDC can meet CEC approvals.
3. An AWG#18/4ft output cable is required to use in order to meet the total regulation on each model. The total regulation will change if a different output cable is used.
4. Optional output connectors are available. Please call factory for ordering details.
5. 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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