

FEATURES

- Class I
- Splash Proof
- 100% Burn-in
- RoHS Compliant
- IEC-320-C14 Input Inlet
- Altitude: 0 - 10,000 Feet
- Optional Output Connectors Available
- Over Voltage and Over Load Protection
- CEC Level V and Energy Star Compliant
- Approved as Limited Power Source (LPS)
- Over Voltage Protection (Crowbar Design)
- -20°C~+70°C Operating Temperature Range
- Wide Input Voltage Range: 90 to 264VAC, 47~63Hz



DESCRIPTION

The DTIPU63 series of AC/DC desktop switching power supplies provides up to 63 watts of continuous output power. All models have a single output, a 90~264VAC input voltage range, and an IEC-320-C14 input connector for worldwide applications. These supplies have a -20°C~+70°C operating temperature range and are protected against over voltage and over load conditions. All models meet FCC-Part-15 class B and CISPR-22 class B emission limits and have UL/c-UL (UL 60950-1) and TUV/GS (EN 60950-1) approvals. These supplies are UL 94V-1, RoHS, CEC Level V, and Energy Star compliant. This series also meets new CE requirements and are 100% burn-in tested.

SPECIFICATIONS: DTIPU63 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			1.6	A
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC			0.7	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	1	2	s
OUTPUT (V_o)					
Output Voltage		See Table			
Load Regulation	V _{in} = 230VAC		3	5	%
Line Regulation	I _o = Full Load		0.5	1	%
Output Power	V _{in} = 90 to 264VAC	0		63	W
Output Current		See Table			
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				ms
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	I _o = Full Load, V _{in} = 230VAC	84	88	91	%
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	0.1		0.5	W
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	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	130,000 hours			
PHYSICAL					
Weight		Approximately 12oz (340g)			
Dimensions (L x W x H)		4.65 x 2.05 x 1.36 inches 118.0 x 52.0 x 34.5 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 Current	Preset Voltage	Output Voltage Range	Output Current	Total Regulation ⁽²⁾	Output Power
DTIPU63-105	90 ~ 264VAC	14 VDC	12 ~ 14 VDC	4.75 ~ 4.07 A	5%	57W
DTIPU63-106	90 ~ 264VAC	16 VDC	15 ~ 16 VDC	4.20 ~ 3.94 A	5%	63W
DTIPU63-107	90 ~ 264VAC	21 VDC	16 ~ 21 VDC	3.94 ~ 3.00 A	5%	63W
DTIPU63-108	90 ~ 264VAC	27 VDC	21 ~ 27 VDC	3.00 ~ 2.33 A	5%	63W
DTIPU63-109	90 ~ 264VAC	33 VDC	27 ~ 33 VDC	2.33 ~ 1.91 A	5%	63W
DTIPU63-110	90 ~ 264VAC	40 VDC	33 ~ 40 VDC	1.91 ~ 1.58 A	3%	63W
DTIPU63-111	90 ~ 264VAC	50 VDC	40 ~ 50 VDC	1.58 ~ 1.26 A	3%	63W

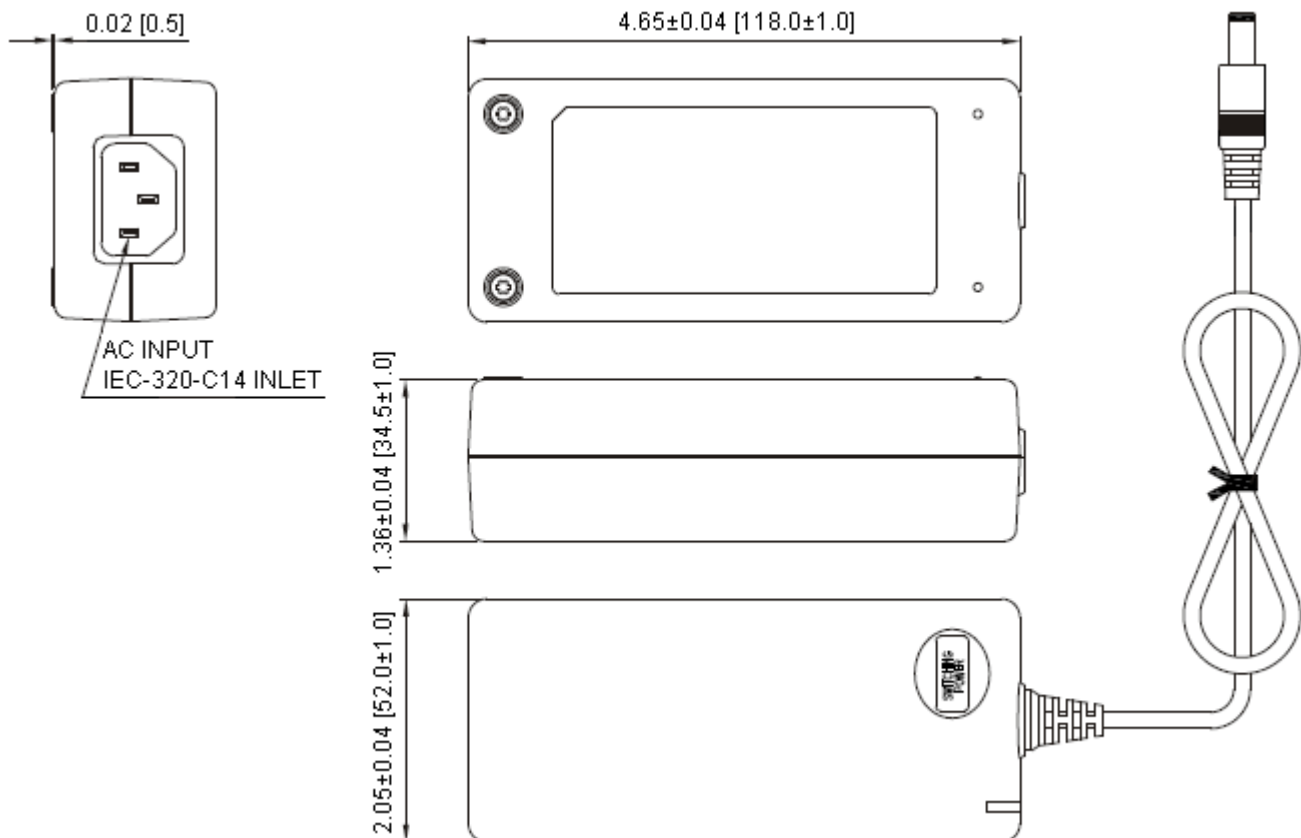
NOTES

1. For single output models the output voltage is specified as a range (Ex: 40 ~ 50VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
2. The DTIPU63-105 needs to use AWG#16/4FT output cable in order to meet the specified total regulation.
3. Optional output connectors are available. Please call factory for ordering details.
4. 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.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300
Toll Free: ☎ (888)597-9255
Fax: ☎ (603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

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