

FEATURES

- Splash Proof
- 100% Burn-in
- Class I Insulation
- IEC-320-C14 Input Inlet
- Optional Output Connectors Available
- Over Voltage Protection (Crowbar Design)
- -20°C ~ +70°C Operating Temperature Range
- Wide Input Voltage Range: 90 to 264VAC, 47~63Hz
- Input Surge Current, Over Voltage, and Over Load Protection

DESCRIPTION

The DTIPU30 series of AC/DC desktop switching mode power supplies provide up to 30 watts of continuous output power. All models have a single output, universal input voltage range, and an operating temperature range of -20° C ~ $+70^{\circ}$ C. These supplies are also protected against input surge current, over voltage, and over load conditions. All supplies are also UL 94V-1 compliant and include an IEC-320-C14 input connector for worldwide applications. All models meet 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. These supplies are 100% burn-in tested.

SPECIFICATIONS: DTIPU30 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}) 264 VAC **Operating Voltage Range** 90 47 Input Frequency 63 Hz Input Current (Low Line) Io = Full Load, Vin = 115VAC 0.8 А Input Current (High Line) Io = Full Load, Vin = 230VAC 0.5 А Inrush Current (Low Line) Io = Full Load, 25°C, Cool Start, Vin = 115VAC 12 15 А Inrush Current (High Line) Io = Full Load, 25°C, Cool Start, Vin = 230VAC 26 30 А Io = Full Load, Vin = 240VAC Safety Ground Leakage Current 0.5 0.75 mΑ

Start-Up Time	Io = Full Load, Vin = 100VAC	0.3	1	2	S	
OUTPUT (V _o)						
Output Voltage		See Rating Chart		VDC		
Load Regulation	Vin = 230VAC		3	7	%	
Line Regulation	Io = Full Load		0.5	1	%	
Output Power	Vin = 90 to 264VAC	0		30	W	
Output Current				A		
*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	12			ms	
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C	
PROTECTION						
Over Voltage Protection		112		132	%	
Over Current Protection		110		150	%	
GENERAL						
Efficiency	Io = Full Load, Vin = 230VAC	65	75	85	%	
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC	
For Primary to Secondary		7272			100	
Dielectric Withstanding Voltage	Primary to Ground	2121			VDC	
For Primary to Ground					_	
Isolation Resistance	Test Voltage = 500VDC	50			MΩ	
ENVIRONMENTAL			1			
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	100,000 hours				
PHYSICAL						
Weight		Approximately 265 ~ 280 grams				
Dimensions (L x W x H)		4.65 x 2.05 x 1.36 inches				
, , , , , , , , , , , , , , , , , , ,		118.0 x 52.0 x 34.5 mm				
Warranty		2 years				
SAFETY				1		
EMI Requirements for CISPR-22	Vin = 220VAC	В			Class	

EMI Requirements for FCC PART-15 Vin = 110VAC B Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.

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APPLICATIONS

- Scanners
- LCD Monitors
- Thermal Printers
- Humidity Temperature Meters



Class



OUTPUT VOLTAGE / CURRENT RATING CHART

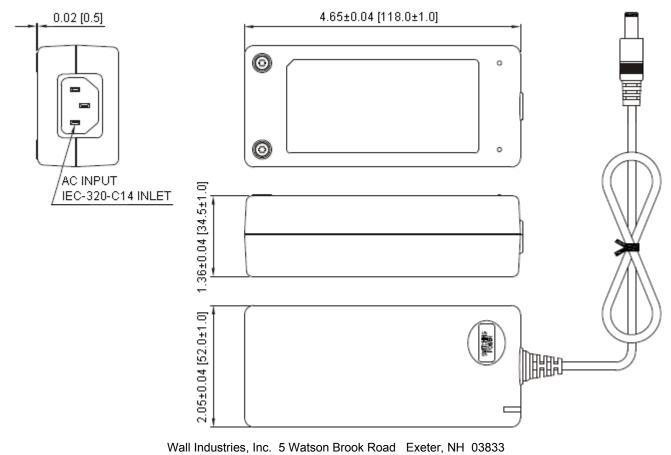
Model Number	Input Current	Preset Voltage	Output Voltage Range	Output Current	Total Regulation ⁽³⁾	Output Power
*DTIPU30-101	90 ~ 264VAC	5 VDC	3 ~ 5 VDC	5.00 A max	7%	20W
*DTIPU30-102	90 ~ 264VAC	6 VDC	5 ~ 6 VDC	5.00 ~ 4.16 A	5%	25W
DTIPU30-103	90 ~ 264VAC	8 VDC	6 ~ 8 VDC	4.16 ~ 3.12 A	5%	25W
DTIPU30-104	90 ~ 264VAC	11 VDC	8 ~ 11 VDC	3.75 ~ 2.72 A	5%	30W
DTIPU30-105	90 ~ 264VAC	13 VDC	11 ~ 13 VDC	2.72 ~ 2.30 A	5%	30W
DTIPU30-106	90 ~ 264VAC	16 VDC	13 ~ 16 VDC	2.30 ~ 1.87 A	5%	30W
DTIPU30-107	90 ~ 264VAC	21 VDC	16 ~ 21 VDC	1.87 ~ 1.42 A	5%	30W
DTIPU30-108	90 ~ 264VAC	27 VDC	21 ~ 27 VDC	1.42 ~ 1.11 A	5%	30W
DTIPU30-109	90 ~ 264VAC	33 VDC	27 ~ 33 VDC	1.11 ~ 0.90 A	5%	30W
DTIPU30-110	90 ~ 264VAC	40 VDC	33 ~ 40 VDC	0.90 ~ 0.75 A	3%	30W
DTIPU30-111	90 ~ 264VAC	50 VDC	40 ~ 50 VDC	0.75 ~ 0.60 A	3%	30W

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 " * " symbol means PSE approval.
- 3. Models 101~102 need to use AWG#16/4FT output cable in order to meet the total regulation. Models 103~111 need to use AWG#18/6FT output cable in order to meet the total regulation.
- 4. Optional output connectors are available. Please call factory for ordering details.

MECHANICAL DRAWING

Unit: inches [mm]



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Rev A