DTIPU31 SERIES

90~264VAC Input Voltage
Up to 30 Watts
Class I, Single Output
AC/DC Desktop Power Supplies
Designed for Industrial Equipment







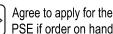












FEATURES

- Class I
- Single Output
- 3 Year Warranty
- RoHS Compliant
- Over Current Protection
- IEC-320-C14 Input Inlet
- Up to 30W Output Power
- Optional Output Connectors
- -20°C ~ +70°C Operating Temperature Range
- Energy Star 2.0, Efficiency Level V Compliant
- Output Voltages Available from 5VDC to 50VDC
- Wide Input Voltage Range: 90~264VAC, 47~63Hz

DESCRIPTION

The DTIPU31 series of AC/DC desktop power supplies provides up to 30 Watts of continuous output power. All models have a single output, $90\sim264$ VAC input voltage range, -20° C $\sim +70^{\circ}$ C operating temperature range, and an IEC-320-C14 AC inlet connector for worldwide applications. All supplies are RoHS, Energy Star 2.0 Level V, and UL94V-1 compliant. The DTIPU31 series meets FCC Part-15 class B and CISPR-22 class B emission limits and has UL/cUL (UL 60950-1) and TUV/GS (EN 60950-1) certifications. This series is also 100% burn-in tested.



SPECIFICATIONS: *DTIPU31 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		eserve the right to change specifications based on technological advance TEST CONDITIONS	Min	Nom	Max	Unit			
INPUT SPECIFIC		TEST CONDITIONS	IVIIII	Nom	Max	UIIIt			
			00	I	264	VAC			
Operating Voltage Range			90		63				
Input Frequency Low Line		La - Full Land Vin - 115VAC	4/		0.8	Hz			
Input Current		Io = Full Load, Vin = 115VAC				A			
	High Line	Io = Full Load, Vin = 230VAC		26	0.5	A			
Inrush Current	Low Line	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		26	30	A			
	High Line	Io = Full Load, 25°C, Cool Start, Vin = 230VAC	0	38	45	A			
No Load Power Consumption		No Load, Vin=240VAC		0.3	0.5	W			
OUTPUT SPECIF			1						
Output Voltage Range			See Table						
Load Regulation		Vin = 230VAC		3	7	%			
Line Regulation		Io = Full Load		0.5	1	%			
Output Power Range		Vin = 90 to 264VAC	0		30	W			
Output Current Range			See Table						
Ripple & Noise (peak to peak)		Full Load, Vin = 90VAC		0.5	1	%			
Transient Response T	ime	Io = Full Load to Half Load, Vin = 100VAC			4	ms			
Hold-Up Time		Io = Full Load, Vin = 110VAC	12			ms			
Start-Up Time		Io = Full Load, Vin = 100VAC	0.3	1	2	S			
Temperature Coefficient			-0.04		+0.04	%/°C			
PROTECTION									
Over Current Protecti	on		110		150	%			
GENERAL SPECI									
Efficiency		Io = Full Load, Vin = 230VAC	73	81	90	%			
Dielectric Withstanding Voltage For Primary to Secondary		Primary to Secondary				VDC			
Dielectric Withstanding Voltage For Primary to Ground		Primary to Ground				VDC			
Isolation Resistance		Test Voltage = 500VDC				ΜΩ			
Safety Ground Leakage Current		Io = Full Load, Vin = 240VAC		0.5	0.75	mA			
ENVIRONMENTAL SPECIFICATIONS									
Operating Temperature		Derate 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 SPECI	FICATIONS		'						
Weight			Approx. 9.35~9.88oz (265~280g)						
Dimensions (L x W x	H)		4.21 x 1.85 x 1.17 inches (107.0 x 47.0 x 29.6 mm)						
AC Inlet			IEC-320-C14						
Warranty			3 years						
SAFETY									
Safety Approvals		IΠ	cUL UL6	0950-1 TI	JV/GS EN	[60950-1			
EMI Requirements fo	or CISPR-22	Vin = 220VAC	В	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , GB EI	Class			
EMI Requirements fo		Vin = 110VAC	В			Class			
Livii requirements 10	1 1 CC 1 / IKT-13	VIII 110 V/1C	ט			Ciass			

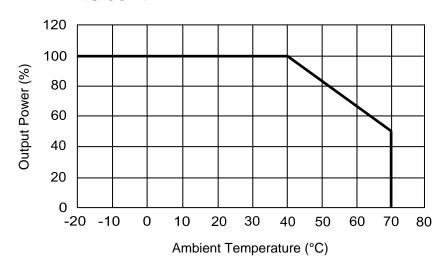


MODEL SELECTION TABLE								
Model Number	Input Voltage Range	Output Voltage Range	Max. Output Current	Total Regulation (3)	Max. Output Power			
DTIPU31-102	90 ~ 264 VAC	5 ~ 6 VDC	4.00 ~ 3.33 A	5%	20W			
DTIPU31-103	90 ~ 264 VAC	6 ~ 8 VDC	4.16 ~ 3.12 A	5%	25W			
DTIPU31-104	90 ~ 264 VAC	8 ~ 11 VDC	3.75 ~ 2.72 A	5%	30W			
DTIPU31-105	90 ~ 264 VAC	11 ~ 13 VDC	2.72 ~ 2.30 A	5%	30W			
DTIPU31-106	90 ~ 264 VAC	13 ~ 16 VDC	2.30 ~ 1.87 A	5%	30W			
DTIPU31-107	90 ~ 264 VAC	16 ~ 21 VDC	1.87 ~ 1.42 A	5%	30W			
DTIPU31-108	90 ~ 264 VAC	21 ~ 27 VDC	1.42 ~ 1.11 A	3%	30W			
DTIPU31-109	90 ~ 264 VAC	27 ~ 33 VDC	1.11 ~ 0.90 A	3%	30W			
DTIPU31-110	90 ~ 264 VAC	33 ~ 40 VDC	0.90 ~ 0.75 A	3%	30W			
DTIPU31-111	90 ~ 264 VAC	40 ~ 50 VDC	0.75 ~ 0.60 A	3%	30W			

NOTES

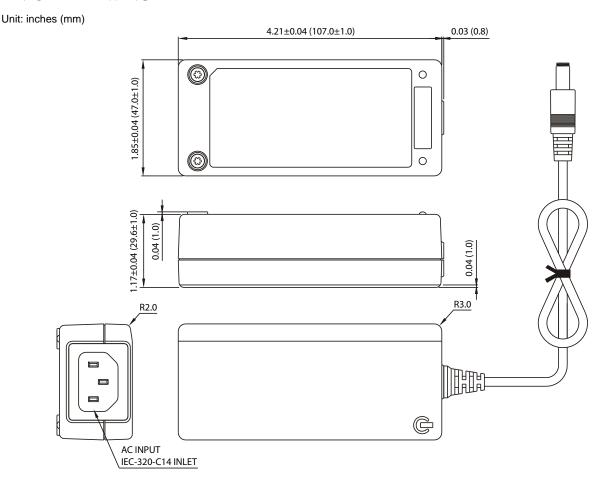
- 1. The output voltage is specified as a range (ex: 40~50VDC); the customer must specify what they would like the output voltage set at. Please call factory for more details.
- 2. Models with an output voltage under 15VDC have been approved by TUV/PSE. Models DTIPU31-104~111 have been approved by CEC Level V Model DTIPU31-106 has been approved by KC.
- 3. Models DTIPU31-102~105 need to use AWG#16/4FT output cable in order to meet the total regulation specified. Models DTIPU31-106~108 need to use AWG#18/4FT output cable in order to meet the total regulation specified. Models DTIPU31-109~111 need to use AWG#18/6FT output cable in order to meet the total regulation specified. The regulation and efficiency will change if a different output cable is used.
- 4. Optional output connectors are available. Please call factory for ordering details.

DERATING CURVE





MECHANICAL DRAWING



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 ISO9001-2008 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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