Wall Industries, Inc.

Rev A

DTIPU16 Series
15 Watt
Single Output
AC/DC Desktop Power Supply

FEATURES

- Splash Proof
- Single Output
- 2 Year Warranty
- Energy Star Compliant
- B Type: Class II Insulation
- Optional Output Connectors
- A & C Types: Class I Insulation
- 3 Types of Inlet Connectors Available
- Wide Input Voltage 90~264VAC, 47~63Hz
- -20°C~+70°C Operating Temperature Range

Approval not for B Type

SPECIFICATIONS: *DTIPU16 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)	Io = Full Load, Vin = 115VAC			0.4	A
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.26	A
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		12	15	A
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		26	30	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	10	%
Line Regulation	Io = Full Load		0.5	1	%
Output Power Range	Vin = 90 to 264VAC			15	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 = 110VAC	5			ms
PROTECTION					
Over Voltage Protection		Nil			%
Over Current Protection	Nil. Output protected to short circuit conditions				%
GENERAL					
Efficiency	Io = Full Load, Vin = 230VAC	72		85	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC
Dielectric Withstanding Voltage Primary to Ground (For A & C Types Only)	Primary to Ground	2121			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
No Load Power Consumption	No Load, Vin = 240VAC	0	0.4	0.5	W
ENVIRONMENTAL					
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	%
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 165 grams			
Dimensions (L x W x H)		3.58 x 1.50 x 1.42 inches 91.0 x 38.0 x 36.0 mm			
Input Inlet		IEC-320-C14, IEC-320-C8, IEC-320-C6			
Warranty		2 years			
SAFETY					
CISPR (EMI Requirements for CISPR-22)	Vin = 220VAC	B			Class
FCC (EMI Requirements for FCC Part-15)	Vin = 110VAC	B			Class

*Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.

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MODEL SELECTION CHART

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power	AC Inlet Connector
*DTIPU16A-101	5 VDC	3 ~ 5 VDC	2.50A max	7%	12W	IEC-320-C14
*DTIPU16A-102	6 VDC	5 ~ 6 VDC	2.50 ~ 2.00A	5%	12W	
*DTIPU16A-103	8 VDC	6 ~ 8 VDC	2.00 ~ 1.50A	5%	12W	
*DTIPU16A-104	11 VDC	8 ~ 11 VDC	1.87 ~ 1.36A	5%	15W	
*DTIPU16A-105	13 VDC	11 ~ 13 VDC	1.36 ~ 1.15A	5%	15W	
*DTIPU16A-106	16 VDC	13 ~ 16 VDC	1.15 ~ 0.94A	5%	15W	
*DTIPU16A-107	21 VDC	16 ~ 21 VDC	0.94 ~ 0.72A	5%	15W	
*DTIPU16A-108	27 VDC	21 ~ 27 VDC	0.72 ~ 0.55A	5%	15W	
*DTIPU16A-109	33 VDC	27 ~ 33 VDC	0.55 ~ 0.45A	5%	15W	
DTIPU16A-110	40 VDC	33 ~ 40 VDC	0.45 ~ 0.37A	3%	15W	
DTIPU16A-111	48 VDC	40 ~ 48 VDC	0.37 ~ 0.31A	3%	15W	
*DTIPU16B-101	5 VDC	3 ~ 5 VDC	2.50A max	7%	12W	IEC-320-C8
*DTIPU16B-102	6 VDC	5 ~ 6 VDC	2.50 ~ 2.00A	5%	12W	
*DTIPU16B-103	8 VDC	6 ~ 8 VDC	2.00 ~ 1.50A	5%	12W	
DTIPU16B-104	11 VDC	8 ~ 11 VDC	1.87 ~ 1.36A	5%	15W	
DTIPU16B-105	13 VDC	11 ~ 13 VDC	1.36 ~ 1.15A	5%	15W	
DTIPU16B-106	16 VDC	13 ~ 16 VDC	1.15 ~ 0.94A	5%	15W	
DTIPU16B-107	21 VDC	16 ~ 21 VDC	0.94 ~ 0.72A	5%	15W	
DTIPU16B-108	27 VDC	21 ~ 27 VDC	0.72 ~ 0.55A	5%	15W	
DTIPU16B-109	33 VDC	27 ~ 33 VDC	0.55 ~ 0.45A	5%	15W	
DTIPU16B-110	40 VDC	33 ~ 40 VDC	0.45 ~ 0.37A	3%	15W	
DTIPU16B-111	48 VDC	40 ~ 48 VDC	0.37 ~ 0.31A	3%	15W	
*DTIPU16C-101	5 VDC	3 ~ 5 VDC	2.50A max	7%	12W	IEC-320-C6
*DTIPU16C-102	6 VDC	5 ~ 6 VDC	2.50 ~ 2.00A	5%	12W	
*DTIPU16C-103	8 VDC	6 ~ 8 VDC	2.00 ~ 1.50A	5%	12W	
*DTIPU16C-104	11 VDC	8 ~ 11 VDC	1.87 ~ 1.36A	5%	15W	
*DTIPU16C-105	13 VDC	11 ~ 13 VDC	1.36 ~ 1.15A	5%	15W	
*DTIPU16C-106	16 VDC	13 ~ 16 VDC	1.15 ~ 0.94A	5%	15W	
*DTIPU16C-107	21 VDC	16 ~ 21 VDC	0.94 ~ 0.72A	5%	15W	
*DTIPU16C-108	27 VDC	21 ~ 27 VDC	0.72 ~ 0.55A	5%	15W	
*DTIPU16C-109	33 VDC	27 ~ 33 VDC	0.55 ~ 0.45A	5%	15W	
DTIPU16C-110	40 VDC	33 ~ 40 VDC	0.45 ~ 0.37A	3%	15W	
DTIPU16C-111	48 VDC	40 ~ 48 VDC	0.37 ~ 0.31A	3%	15W	

NOTES

1. The DTIPU16 Series is designated as DTIPU16x-y where x represents the type of AC input inlet connector, which can either be A (IEC-320-C14), B (IEC-320-C8), or C (IEC-320-C6); y can be 101, 102, 103, 104, 105, 106, 107, 108, 109, 110 or 111 for output voltage.
2. 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.
3. The " * " symbol means PSE approval.
4. A & C Types Only: Models with output voltages under 30VDC have been approved by TUV/PSE.
5. Optional output connectors are available. Please call the factory for more details.

MECHANICAL DRAWING

Unit: inches [mm]