

FEATURES

- Splash Proof
- Single Output
- 2 Year Warranty
- Class II Insulation
- Energy Star Compliant
- Optional Output Connector
- A Stand and Mains AC Power Cord
- Wide Input Voltage 90~264VAC, 47~63Hz
- -20°C~+70°C Operating Temperature Range



DESCRIPTION

The DTIPU16D series of AC/DC switching mode power supplies provides 15 Watts of continuous output power. All models have a single output, universal input voltage range, and an operating temperature range of -20°C ~ +70°C. All supplies are UL 94V-1 min compliant and include an AC power cord input 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. All units are Energy Star compliant and 100% burn-in tested.

SPECIFICATIONS: DTIPU16D 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			0.4	A
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC			0.26	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 Range		See Rating Chart			
Load Regulation	V _{in} = 230VAC		3	10	%
Line Regulation	I _o = Full Load		0.5	1	%
Output Power Range	V _{in} = 90 to 264VAC	0		15	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} = 110VAC	5			ms
PROTECTION					
Over Voltage Protection		Nil			%
Over Current Protection		Nil. Output protected to short circuit conditions			%
GENERAL					
Efficiency	I _o = Full Load, V _{in} = 230VAC	72	75	85	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
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			
Warranty		2 years			
SAFETY					
CISPR (EMI Requirements for CISPR-22)	V _{in} = 220VAC	B			Class
FCC (EMI Requirements for FCC Part-15)	V _{in} = 110VAC	B			Class

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

MODEL SELECTION CHART

Model Number	Input Voltage	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power
DTIPU16D-101	90 ~ 264 VAC	5 VDC	3 ~ 5 VDC	2.50A max	7%	12W
DTIPU16D-102	90 ~ 264 VAC	6 VDC	5 ~ 6 VDC	2.50 ~ 2.00A	5%	12W
DTIPU16D-103	90 ~ 264 VAC	8 VDC	6 ~ 8 VDC	2.00 ~ 1.50A	5%	12W
DTIPU16D-104	90 ~ 264 VAC	11 VDC	8 ~ 11 VDC	1.87 ~ 1.36A	5%	15W
DTIPU16D-105	90 ~ 264 VAC	13 VDC	11 ~ 13 VDC	1.36 ~ 1.15A	5%	15W
DTIPU16D-106	90 ~ 264 VAC	16 VDC	13 ~ 16 VDC	1.15 ~ 0.94A	5%	15W
DTIPU16D-107	90 ~ 264 VAC	21 VDC	16 ~ 21 VDC	0.94 ~ 0.72A	5%	15W
DTIPU16D-108	90 ~ 264 VAC	27 VDC	21 ~ 27 VDC	0.72 ~ 0.55A	5%	15W
DTIPU16D-109	90 ~ 264 VAC	33 VDC	27 ~ 33 VDC	0.55 ~ 0.45A	5%	15W
DTIPU16D-110	90 ~ 264 VAC	40 VDC	33 ~ 40 VDC	0.45 ~ 0.37A	3%	15W
DTIPU16D-111	90 ~ 264 VAC	48 VDC	40 ~ 48 VDC	0.37 ~ 0.31A	3%	15W

NOTES

1. 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.
2. Dimensions on the mechanical drawing are shown in millimeters and inches.
3. Optional output connectors are available. Please call factory for ordering details.

MECHANICAL DRAWING

Unit: inches [mm]

