Wall Industries, Inc.

DTSPU16 Series
15 Watt
Single Output
AC/DC Desktop Power Supply

FEATURES

- Splash Proof
- Single Output
- 2 Year Warranty
- Energy Star Compliant
- Optional Output Connectors
- A & C Types: Class I Insulation
- 3 Types of Inlet Connectors Available
- Wide Input Voltage 90 to 264VAC, 47~63Hz
- B Type: Class II Insulation (Double Insulation)
- Output Voltages Available from 3VDC thru 48VDC


Type A


Type B


Type C

Approval not for B Type

SPECIFICATIONS: *DTSPU16 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			VDC
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			A
*Ripple & Noise (peak to peak)	Full Load, Vin = 90VAC		0.5	1	%
Transient Response	Io = Full Load to Half Load, Vin = 100VAC			4	ms
Hold-Up Time	Io = Full Load, Vin = 110VAC	5			ms
Minimum Load			0		%
PROTECTION					
Over Voltage Protection			Nil		%
Over Current Protection			Nil. Output protected to short circuit conditions		%
GENERAL					
Efficiency	Io = Full Load, Vin = 230VAC	80		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
Power Consumption (No Load)	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	0		70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
PHYSICAL					
Weight		Approximately 165 grams			
Dimensions		3.58(L) x 1.50(W) x 1.42(H)			inches
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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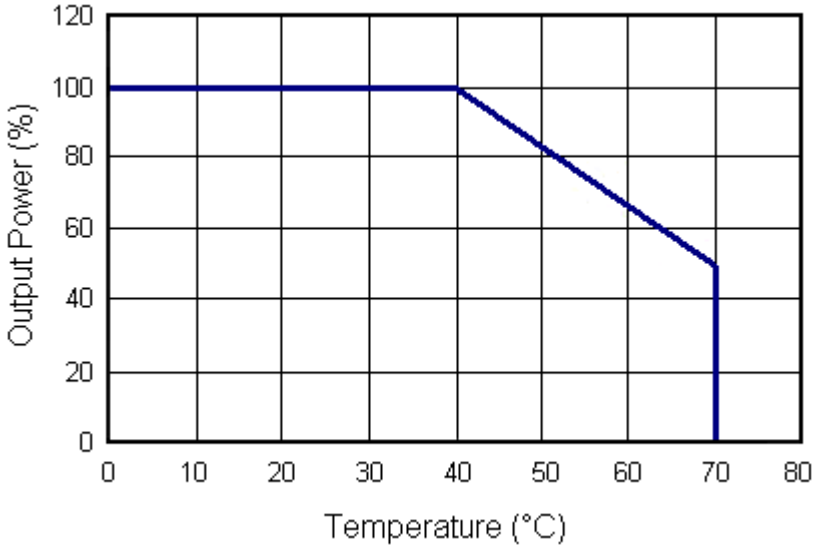
OUTPUT VOLTAGE/ CURRENT RATING CHART

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power	AC Inlet Connector
*DTSPU16A-101	5 VDC	3 ~ 5 VDC	2.50A max	7%	12W	IEC-320-C14
*DTSPU16A-102	6 VDC	5 ~ 6 VDC	2.40 ~ 2.00A	5%	12W	
*DTSPU16A-103	8 VDC	6 ~ 8 VDC	2.00 ~ 1.50A	5%	12W	
*DTSPU16A-104	11 VDC	8 ~ 11 VDC	1.87 ~ 1.36A	5%	15W	
*DTSPU16A-105	13 VDC	11 ~ 13 VDC	1.36 ~ 1.15A	5%	15W	
*DTSPU16A-106	16 VDC	13 ~ 16 VDC	1.15 ~ 0.94A	5%	15W	
*DTSPU16A-107	21 VDC	16 ~ 21 VDC	0.94 ~ 0.72A	5%	15W	
*DTSPU16A-108	27 VDC	21 ~ 27 VDC	0.72 ~ 0.55A	5%	15W	
*DTSPU16A-109	33 VDC	27 ~ 33 VDC	0.55 ~ 0.45A	5%	15W	
DTSPU16A-110	40 VDC	33 ~ 40 VDC	0.45 ~ 0.37A	3%	15W	
DTSPU16A-111	48 VDC	40 ~ 48 VDC	0.37 ~ 0.31A	3%	15W	
*DTSPU16B-101	5 VDC	3 ~ 5 VDC	2.50A max	7%	12W	IEC-320-C8
*DTSPU16B-102	6 VDC	5 ~ 6 VDC	2.40 ~ 2.00A	5%	12W	
*DTSPU16B-103	8 VDC	6 ~ 8 VDC	2.00 ~ 1.50A	5%	12W	
DTSPU16B-104	11 VDC	8 ~ 11 VDC	1.87 ~ 1.36A	5%	15W	
DTSPU16B-105	13 VDC	11 ~ 13 VDC	1.36 ~ 1.15A	5%	15W	
DTSPU16B-106	16 VDC	13 ~ 16 VDC	1.15 ~ 0.94A	5%	15W	
DTSPU16B-107	21 VDC	16 ~ 21 VDC	0.94 ~ 0.72A	5%	15W	
DTSPU16B-108	27 VDC	21 ~ 27 VDC	0.72 ~ 0.55A	5%	15W	
DTSPU16B-109	33 VDC	27 ~ 33 VDC	0.55 ~ 0.45A	5%	15W	
DTSPU16B-110	40 VDC	33 ~ 40 VDC	0.45 ~ 0.37A	3%	15W	
DTSPU16B-111	48 VDC	40 ~ 48 VDC	0.37 ~ 0.31A	3%	15W	
*DTSPU16C-101	5 VDC	3 ~ 5 VDC	2.50A max	7%	12W	IEC-320-C6
*DTSPU16C-102	6 VDC	5 ~ 6 VDC	2.40 ~ 2.00A	5%	12W	
*DTSPU16C-103	8 VDC	6 ~ 8 VDC	2.00 ~ 1.50A	5%	12W	
*DTSPU16C-104	11 VDC	8 ~ 11 VDC	1.87 ~ 1.36A	5%	15W	
*DTSPU16C-105	13 VDC	11 ~ 13 VDC	1.36 ~ 1.15A	5%	15W	
*DTSPU16C-106	16 VDC	13 ~ 16 VDC	1.15 ~ 0.94A	5%	15W	
*DTSPU16C-107	21 VDC	16 ~ 21 VDC	0.94 ~ 0.72A	5%	15W	
*DTSPU16C-108	27 VDC	21 ~ 27 VDC	0.72 ~ 0.55A	5%	15W	
*DTSPU16C-109	33 VDC	27 ~ 33 VDC	0.55 ~ 0.45A	5%	15W	
DTSPU16C-110	40 VDC	33 ~ 40 VDC	0.45 ~ 0.37A	3%	15W	
DTSPU16C-111	48 VDC	40 ~ 48 VDC	0.37 ~ 0.31A	3%	15W	

NOTES

1. The DTSPU16 Series is designated as DTSPU16x-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.
2. 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.
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 (see "DC Output Plug Selector List" link located at the bottom of the "Desktop" category page). Please call factory for ordering details.

DERATING CURVE



MECHANICAL DRAWING