

FEATURES

- Splash Proof
- 2 Year Warranty
- Class I Insulation
- IEC-320-C14 Input Inlet
- Optional Output Connector
- CEC and Energy Star Compliant
- Approved as Limited Power Source (LPS)
- Wide Input Voltage 90 to 264VAC, 47~63Hz
- Output Voltage Protection (Crowbar Design)
- Output Voltages Available from 5VDC thru 50VDC

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SPECIFICATIONS: DTSPU40 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.

Rev A

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)	lo = Full Load, Vin = 115VAC			1	Α
Input Current (High Line)	lo = Full Load, Vin = 230VAC			0.5	A
Inrush Current (Low Line)	lo = Full Load, 25°C, Cool Start, Vin = 115VAC		12	15	А
Inrush Current (High Line)	lo = Full Load, 25°C, Cool Start, Vin = 230VAC		26	30	Α
Safety Ground Leakage Current	lo = Full Load, Vin = 240VAC		0.5	0.75	mA
Start-Up Time	Io = Full Load, Vin = 100VAC	0.3		0.5	S
OUTPUT (V _o)					
Output Voltage Range		See Rating Ch		hart	VDC
Load Regulation	Vin = 230VAC		3	7	%
Line Regulation	lo = Full Load		0.5	1	%
Output Power	Vin = 90 to 264VAC	0		40	W
Output Current Range		See Rating Chart		hart	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	16			ms
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	lo = Full Load, Vin = 230VAC	78	83	90	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC
Dielectric Withstanding Voltage For Primary to Ground	Primary to Ground	2121			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Power Consumption (No Load)	No load, Vin = 240VAC		0.3	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
MTBF	Operating temperature at 25°C, Calculated per MIL-HDBK-217F		100,000	1	hours
PHYSICAL			·		
Weight		Approximately 275		grams	
Dimensions		4.65 x 2.05 x 1.36			inches
Warranty		2		vears	
SAFETY					,
EMI Requirements for CISPR-22	Vin = 220VAC	В	1		Class
EMI Requirements for FCC PART-15	Vin = 110VAC	B			Class

Wall Industries, Inc. 5 Watson Brook Road Exeter, NH 03833 603-778-2300 www.wallindustries.com Fax 603-778-9797





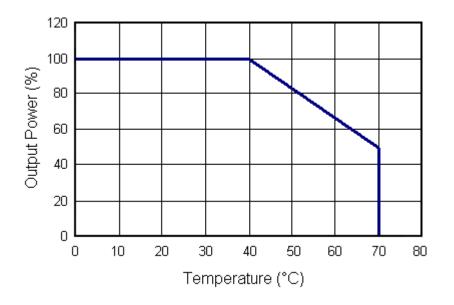
OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power
DTSPU40-102	5 VDC	5 ~ 6 VDC	5.00 ~ 4.16 A	5%	25W
DTSPU40-103	6 VDC	6 ~ 8 VDC	4.00 ~ 3.75 A	5%	30W
DTSPU40-104	8 VDC	8 ~ 11 VDC	4.37 ~ 3.18 A	4%	35W
DTSPU40-105	11 VDC	11 ~ 13 VDC	3.63 ~ 3.07 A	3%	40W
DTSPU40-106	13 VDC	13 ~ 16 VDC	3.07 ~ 2.50 A	3%	40W
DTSPU40-107	16 VDC	16 ~ 21 VDC	2.50 ~ 1.90 A	3%	40W
DTSPU40-108	21 VDC	21 ~ 27 VDC	1.90 ~ 1.48 A	2%	40W
DTSPU40-109	27 VDC	27 ~ 33 VDC	1.48 ~ 1.21 A	2%	40W
DTSPU40-110	33 VDC	33 ~ 40 VDC	1.21 ~ 1.00 A	2%	40W
DTSPU40-111	40 VDC	40 ~ 50 VDC	1.00 ~ 0.80 A	2%	40W

NOTES

- 1. 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. Models DTSPU40-102 ~ DTSPU40-105 need to use "AWG#16, 4FT long" to meet CEC requirements and models DTSPU40-106 ~ DTSPU40-111 need to use "AWG#18, 4FT long" to meet CEC requirements.
- 3. The regulation will change by modifying the output cable.
- 4. 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

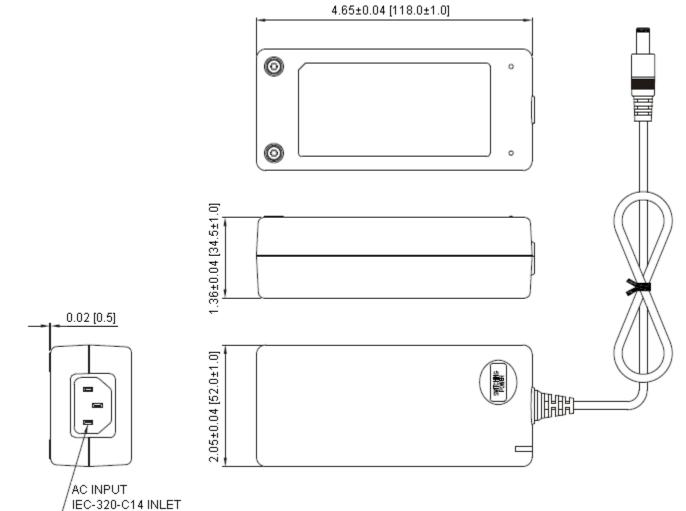


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MECHANICAL DRAWING

Unit: inches [mm]



NOTES

- 1. Dimensions are shown in inches [mm]
- 2. Weight: Approximately 275 grams.
- 3. Optional output connectors available: ("DC Output Plug Selector List")

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