

FEATURES

- Splash Proof
- RoHS Compliant
- 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



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.

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			1	A
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC			0.5	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		0.5	s
OUTPUT (V_o)					
Output Voltage Range		See Rating Chart			VDC
Load Regulation	V _{in} = 230VAC		3	7	%
Line Regulation	I _o = Full Load		0.5	1	%
Output Power	V _{in} = 90 to 264VAC	0		40	W
Output Current Range		See Rating Chart			A
Ripple & Noise (peak to peak)	Full Load, V _{in} = 90VAC		0.5	1	%
Transient Response	I _o = Full Load to Half Load, V _{in} = 100VAC			4	ms
Hold-Up Time	I _o = Full Load, V _{in} = 110VAC	16			ms
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	I _o = Full Load, V _{in} = 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, V _{in} = 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			hours
PHYSICAL					
Weight		Approximately 275			grams
Dimensions		4.65 x 2.05 x 1.36			inches
SAFETY					
EMI Requirements for CISPR-22	V _{in} = 220VAC	B			Class
EMI Requirements for FCC PART-15	V _{in} = 110VAC	B			Class

MODEL SELECTION TABLE

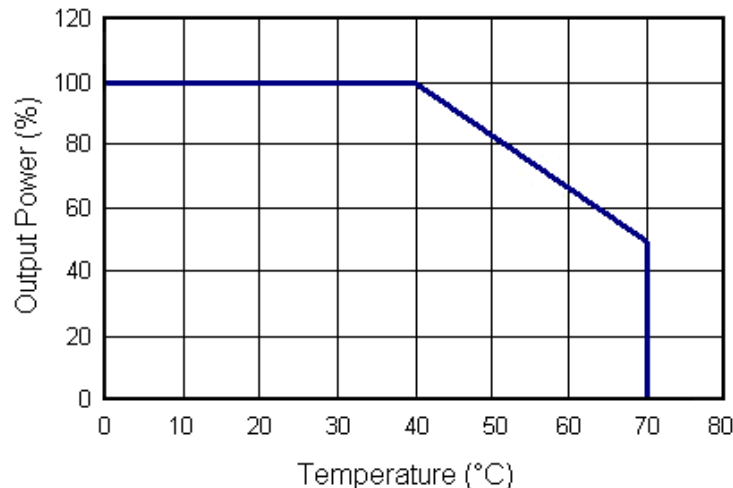
Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power
DTSPU40-102	5 VDC	5 ~ 6 VDC	5.00 ~ 4.16 A	5%	25W
DTSPU40-103	6 VDC	6 ~ 8 VDC	4.00 ~ 3.75 A	5%	30W
DTSPU40-104	8 VDC	8 ~ 11 VDC	4.37 ~ 3.18 A	4%	35W
DTSPU40-105	11 VDC	11 ~ 13 VDC	3.63 ~ 3.07 A	3%	40W
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.
5. This product is Listed to applicable standards and requirements by UL.

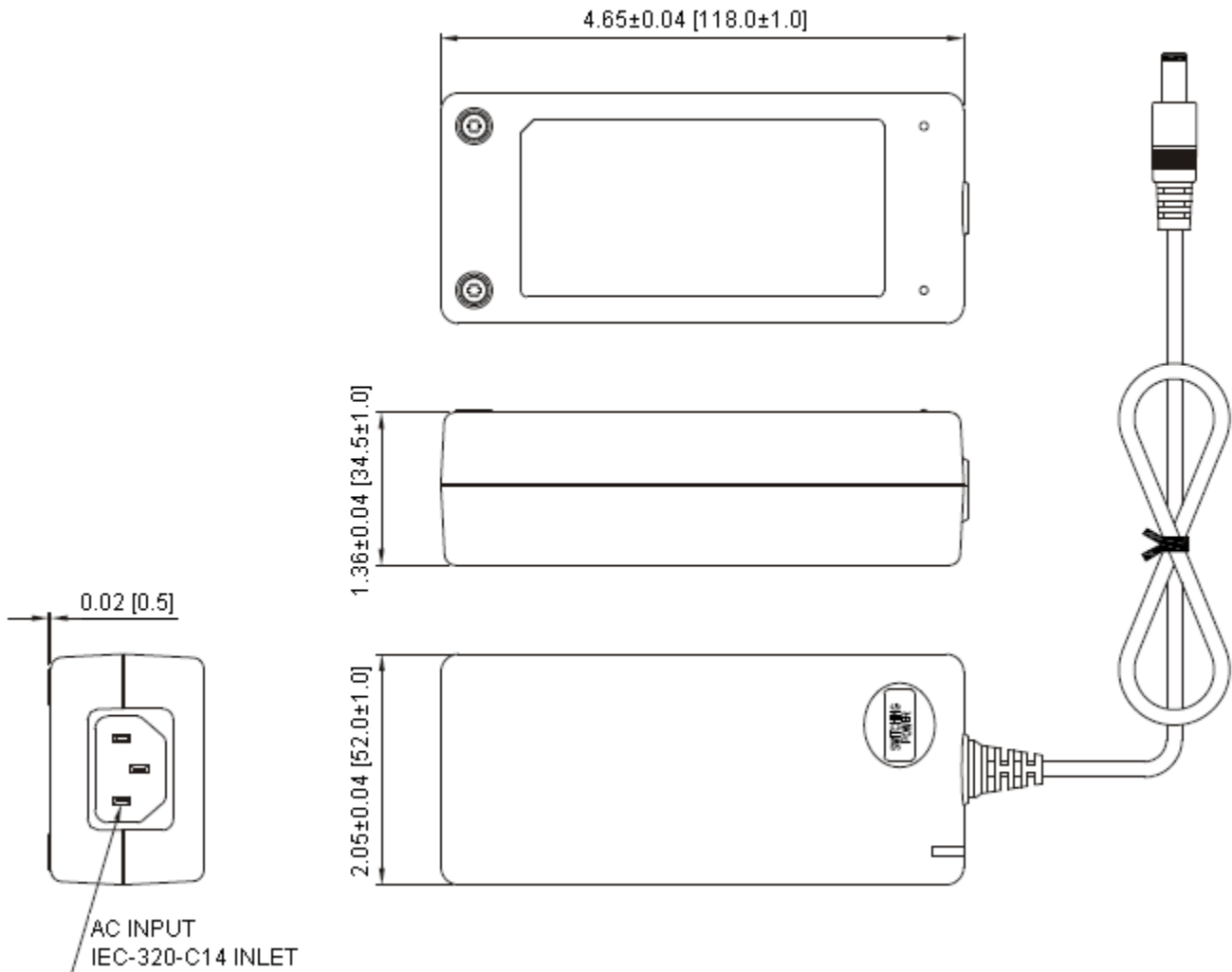
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVE



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")



Wall Industries, Inc.

Rev B

DTSPU40 Series
40 Watt
Single Output
AC/DC Desktop Power Supply

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: 2015 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:

Phone: ☎ (603)778-2300
Toll Free: ☎ (888)597-9255
Fax: ☎ (603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

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