WALL®
Wall Industries, inc.

Rev B

DTSPU63 Series
63 Watt
Single Output
AC/DC Desktop Power Supply

FEATURES

- **Splash Proof**
- **2 Year Warranty**
- **Class I Insulation**
- **IEC-320-C14 Input Inlet**
- **Optional Output Connector**
- **CEC and Energy Star Compliance**
- **Approved as Limited Power Source (LPS)**
- **Over Voltage Protection (Crowbar Design)**
- **Wide Input Voltage 90 to 264VAC, 47~63Hz**
- **Output Voltage Available from 12VDC thru 50VDC**

SPECIFICATIONS: *DTSPU63 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			1.6	A
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.7	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	5	%
Line Regulation	Io = Full Load		0.5	1	%
Output Power Range	Vin = 90 to 264VAC	0		63	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	16			ms
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		102		150	%
GENERAL					
Efficiency	Io = Full Load, Vin = 230VAC	84	88	91	%
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	0.1		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 Temp. at 25°C, Calculated per MIL-HDBK-217F		130,000		hours
PHYSICAL					
Weight		Approximately 340g			grams
Dimensions		4.65 x 2.05 x 1.36			inches
Warranty			2		years
SAFETY					
CISPR	Vin = 220VAC	B			Class
FCC	Vin = 110VAC	B			Class
Safety Standards	UL/CUL, TUV-GS, CE, CB, PSE				

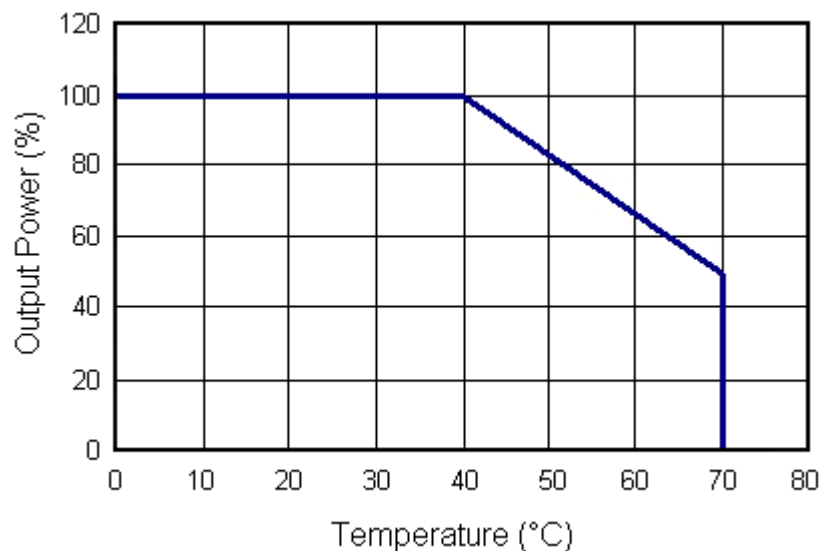**WALL** ®
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OUTPUT VOLTAGE/ CURRENT RATING CHART

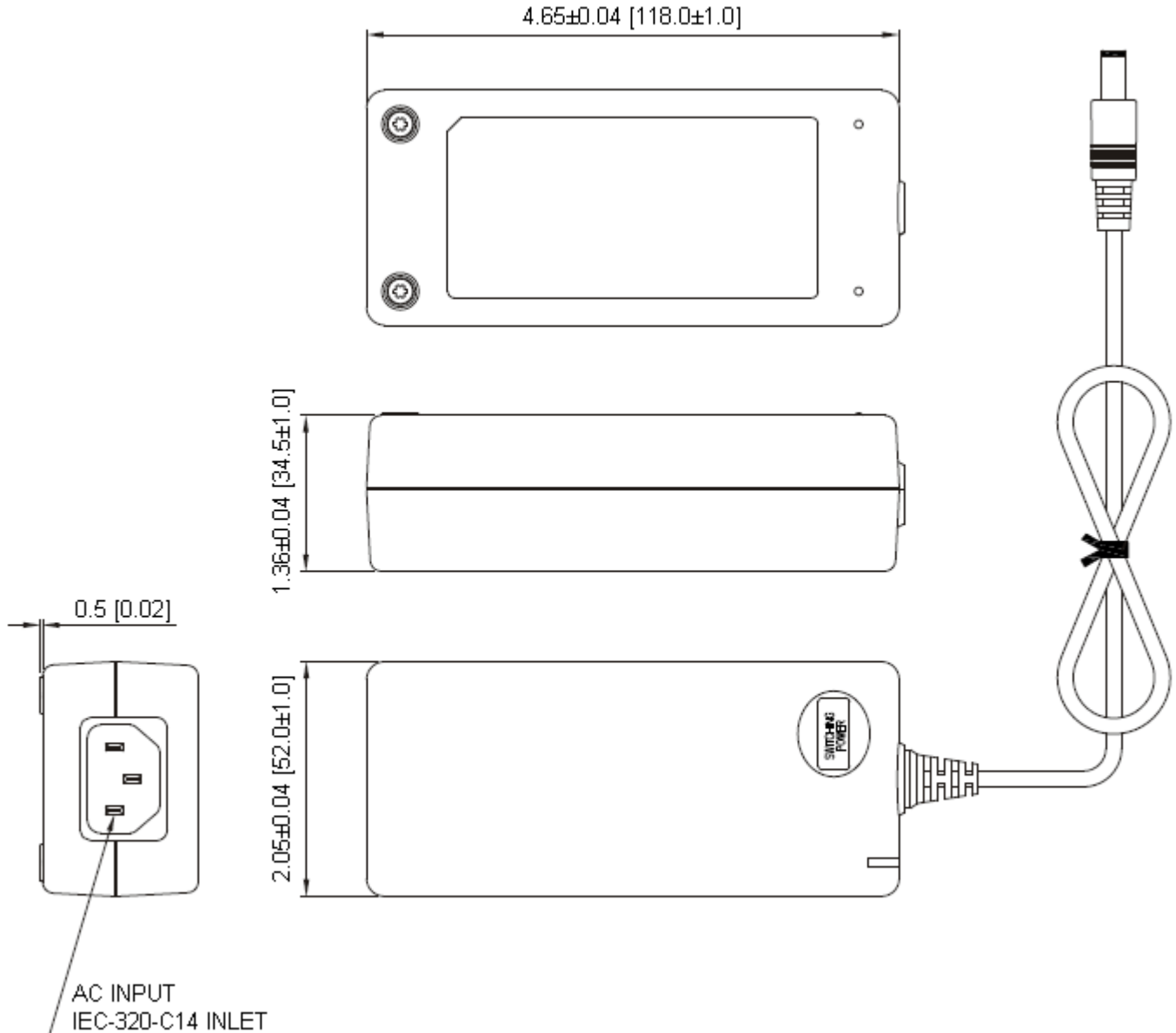| Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power
DTSPU63-105	12 VDC	12 ~ 14 VDC	4.75 ~ 4.07 A	5%	57W
DTSPU63-106	15 VDC	15 ~ 16 VDC	4.20 ~ 3.94 A	5%	63W
DTSPU63-107	16 VDC	16 ~ 21 VDC	3.94 ~ 3.00 A	5%	63W
DTSPU63-108	21 VDC	21 ~ 27 VDC	3.00 ~ 2.33 A	5%	63W
DTSPU63-109	27 VDC	27 ~ 33 VDC	2.33 ~ 1.91 A	5%	63W
DTSPU63-110	33 VDC	33 ~ 40 VDC	1.91 ~ 1.58 A	5%	63W
DTSPU63-111	40 VDC	40 ~ 50 VDC	1.58 ~ 1.26 A	5%	63W

NOTES

1. The output voltage is specified as a range (Ex: 40 ~ 50 VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.

2. The total regulation on each model is required to use AWG#18/4FT output cable. The regulation will be changed by modified output cable.

3. The PSE mark is not for each model; please call factory if you need to put the PSE mark on your products.

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]

4.65±0.04 [118.0±1.0]

1.36±0.04 [34.5±1.0]

0.5 [0.02]

2.05±0.04 [52.0±1.0]

AC INPUT
IEC-320-C14 INLET

NOTES

1. Dimensions are shown in inches [mm].

2. Weight: Approximately 340 grams.

3. Optional output connectors available:
   (see "DC Output Plug Selector List")