

### FEATURES

- Splash Proof
- 2 Year Warranty
- Class I Insulation
- IEC-320-C14 Input Inlet
- Optional Output Connector
- Wide Input Voltage 90 to 264VAC, 47~63Hz
- Output Voltage Protection (Crowbar Design)
- Output Voltage Available from 5VDC thru 50VDC
- Input Surge Current, Over Voltage, and Over Load Protection



SPECIFICATIONS: DTSPU50 Series						
<p style="color: red;">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.</p>						
SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit	
<b>INPUT (V<sub>in</sub>)</b>						
Operating Voltage Range		90		264	VAC	
Input Frequency		47		63	Hz	
Input Current (Low Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 115VAC			1.6	A	
Input Current (High Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC			1.0	A	
Inrush Current (Low Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 115VAC		12	15	A	
Inrush Current (High Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 230VAC		26	30	A	
Safety Ground Leakage Current	I <sub>o</sub> = Full Load, V <sub>in</sub> = 240VAC		0.5	0.75	mA	
Start-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 100VAC	0.3	1	2	s	
<b>OUTPUT (V<sub>o</sub>)</b>						
Output Voltage Range		See Rating Chart			VDC	
Load Regulation	V <sub>in</sub> = 230VAC		5		%	
Line Regulation	I <sub>o</sub> = Full Load		0.5	1	%	
Output Power	V <sub>in</sub> = 90 to 264VAC	0		60	W	
Output Current Range		See Rating Chart			A	
Ripple & Noise (peak to peak)	Full Load, V <sub>in</sub> = 90VAC		0.5	1	%	
Transient Response	I <sub>o</sub> = Full Load to Half Load, V <sub>in</sub> = 100VAC			4	ms	
Hold-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 110VAC	16			ms	
<b>PROTECTION</b>						
Over Voltage Protection		112		132	%	
Over Current Protection		110		150	%	
<b>GENERAL</b>						
Switching Frequency			65		KHz	
Efficiency	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC	75	83	88	%	
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	
<b>ENVIRONMENTAL</b>						
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	
<b>PHYSICAL</b>						
Weight		Approximately 488 ~ 596			grams	
Dimensions		5.75 x 2.99 x 1.69			inches	
Warranty		2			years	
<b>SAFETY</b>						
EMI Requirements for CISPR-22	V <sub>in</sub> = 220VAC	B			Class	
EMI Requirements for FCC PART-15	V <sub>in</sub> = 110VAC	B			Class	

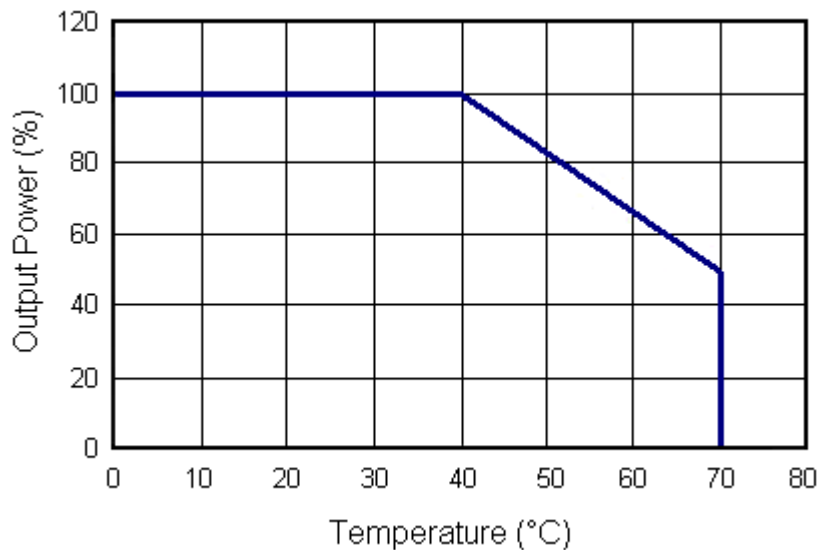
**OUTPUT VOLTAGE / CURRENT RATING CHART**

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power
*DTSPU50-1	5 VDC	5 ~ 6 VDC	10.0 ~ 8.30 A	5%	50W
*DTSPU50-1-1	6 VDC	6 ~ 9 VDC	9.10 ~ 6.11 A	5%	55W
*DTSPU50-2	9 VDC	9 ~ 11 VDC	6.50 ~ 5.31 A	5%	58.5W
*DTSPU50-3	11 VDC	11 ~ 13 VDC	5.45 ~ 4.61 A	5%	60W
*DTSPU50-4	13 VDC	13 ~ 16 VDC	4.61 ~ 3.75 A	5%	60W
DTSPU50-5	16 VDC	16 ~ 21 VDC	3.75 ~ 2.85 A	5%	60W
DTSPU50-6	21 VDC	21 ~ 27 VDC	2.85 ~ 2.22 A	5%	60W
DTSPU50-7	27 VDC	27 ~ 33 VDC	2.22 ~ 1.82 A	5%	60W
DTSPU50-8	33 VDC	33 ~ 40 VDC	1.82 ~ 1.50 A	5%	60W
DTSPU50-9	40 VDC	40 ~ 50 VDC	1.50 ~ 1.20 A	5%	60W

**NOTES**

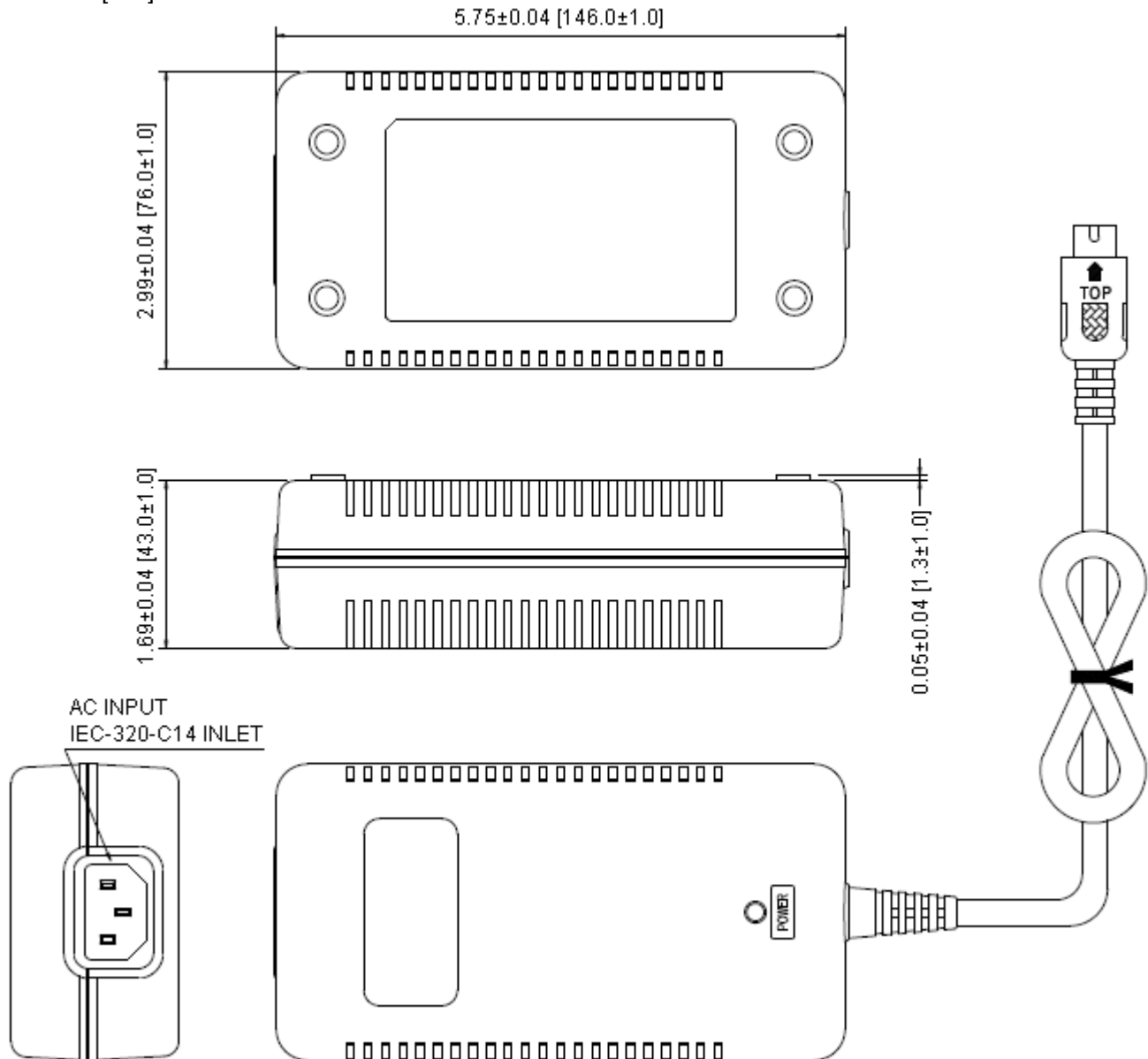
1. The asterisk “\*” next to the model number indicates PSE approval.
2. Models with output voltages under 15VDC have been approved by TUV/PSE.
3. The output voltage is specified as a range (Ex: 40 ~ 50VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
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**



**MECHANICAL DRAWING**

Unit: inches [mm]



**NOTES**

1. Dimensions are shown in inches [mm]
2. Weight: Approximately 488 ~ 596 grams.
3. Optional output connectors available:  
("DC Output Plug Selector List")