

# **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 3VDC thru 50VDC
- Input Surge Current, Over Voltage, and Over Load Protection





SPECIFICATIONS: DTSPU30		E) US		JĚT V				
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 <sub>in</sub> )								
Operating Voltage Range		90		264	VAC			
Input Frequency		47		63	Hz			
Input Current (Low Line)	Io = Full Load, Vin = 115VAC			0.8	Α			
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.5	Α			
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		12	15	Α			
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		26	30	Α			
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 <sub>o</sub> )				1				
Output Voltage Range		Se	e Rating C	hart	VDC			
Load Regulation	Vin = 230VAC		3	7	%			
Line Regulation	lo = Full Load		0.5	1	%			
Output Power	Vin = 90 to 264VAC	0		30	W			
Output Current Range		See Rating Chart		hart	Α			
*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	lo = Full Load. Vin = 110VAC	12			ms			
PROTECTION								
Over Voltage Protection		112		132	%			
Over Current Protection		110		150	%			
GENERAL		114						
Efficiency	Io = Full Load, Vin = 230VAC	65	75	85	%			
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			ΜΩ			
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			100,000	1	hours			
PHYSICAL			· · ·					
Weight		Approximately 265 ~ 280		grams				
Dimensions		4.65 x 2.05 x 1.36			inches			
Warranty		2			years			
SAFETY					,,,,,,,,			
EMI Requirements for CISPR-22	Vin = 220VAC	В			Class			
EMI Requirements for FCC PART-15	Vin = 110VAC	В			Class			

\*Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.



## 30 Watt **Single Output AC/DC Desktop Power Supply**

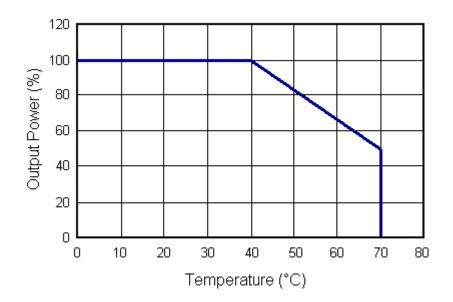
### **OUTPUT VOLTAGE / CURRENT RATING CHART**

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Maximum Output Power
DTSPU30-101	3 VDC	3 ~ 5 VDC	5.00 A max	7%	20W
*DTSPU30-102	5 VDC	5 ~ 6 VDC	5.00 ~ 4.16 A	5%	25W
*DTSPU30-103	6 VDC	6 ~ 8 VDC	4.16 ~ 3.12 A	5%	25W
DTSPU30-104	8 VDC	8 ~ 11 VDC	3.75 ~ 2.72 A	5%	30W
DTSPU30-105	11 VDC	11 ~ 13 VDC	2.72 ~ 2.30 A	5%	30W
DTSPU30-106	13 VDC	13 ~ 16 VDC	2.30 ~ 1.87 A	5%	30W
DTSPU30-107	16 VDC	16 ~ 21 VDC	1.87 ~ 1.42 A	5%	30W
DTSPU30-108	21 VDC	21 ~ 27 VDC	1.42 ~ 1.11 A	5%	30W
DTSPU30-109	27 VDC	27 ~ 33 VDC	1.11 ~ 0.90 A	5%	30W
DTSPU30-110	33 VDC	33 ~ 40 VDC	0.90 ~ 0.75 A	3%	30W
DTSPU30-111	40 VDC	40 ~ 50 VDC	0.75 ~ 0.60 A	3%	30W

### **NOTES**

- 1. The asterisk " \* " next to the model number indicates PSE approval.
- 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. 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.

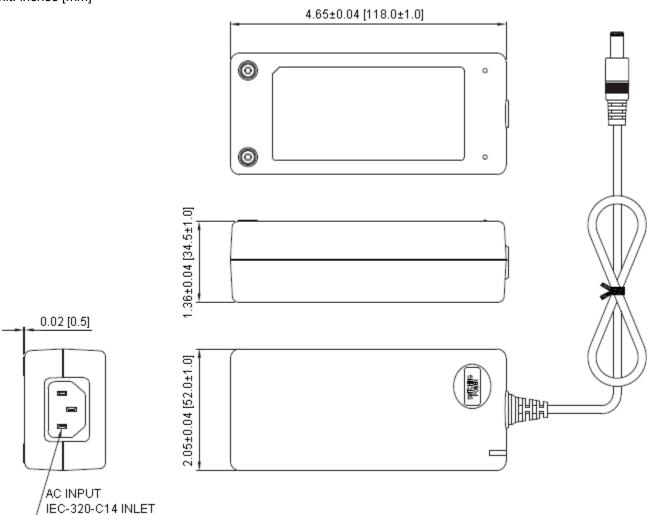
### **DERATING CURVE**





#### **MECHANICAL DRAWING**

Unit: inches [mm]



### **NOTES**

- 1. Dimensions are shown in inches [mm]
- 2. Weight: Approximately 265 ~ 280 grams.
- 3. Optional output connectors available: ("DC Output Plug Selector List")