

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 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			0.8	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	1	2	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		30	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	12			ms
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	I _o = Full Load, V _{in} = 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			MΩ
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			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	V _{in} = 220VAC	B			Class
EMI Requirements for FCC PART-15	V _{in} = 110VAC	B			Class

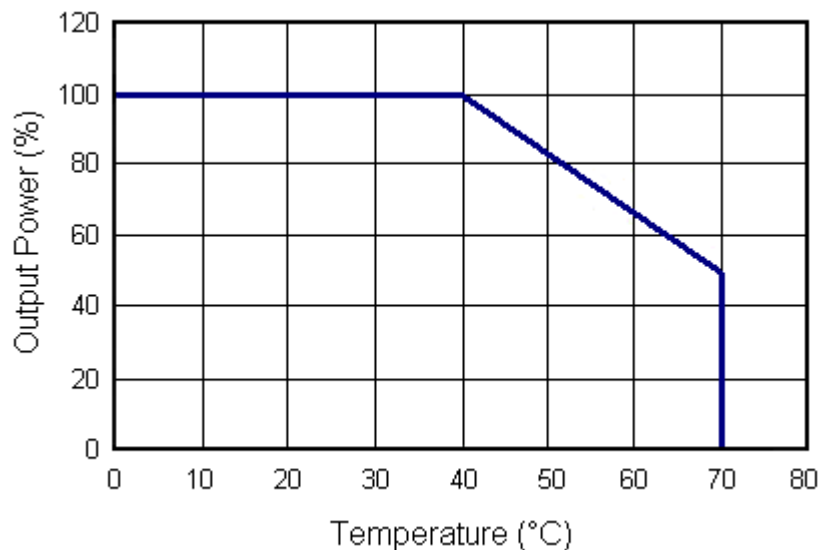
*Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.

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

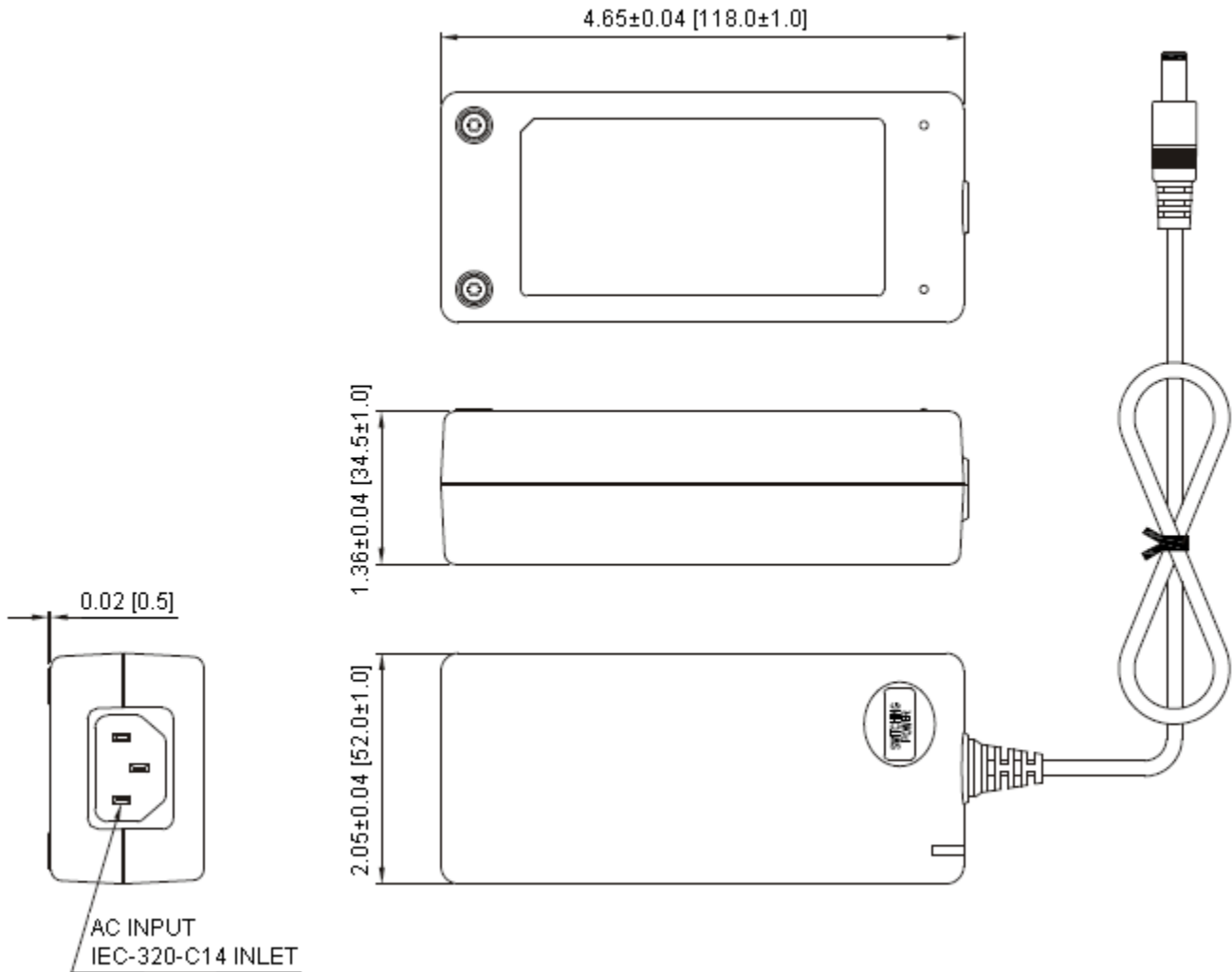
NOTES

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")