

FEATURES

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



SPECIFICATIONS: DTSPU45 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})					
Input Voltage		90		264	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	I _o = Full Load, V _{in} = 115VAC			1.35	A
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC			0.8	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	15	%
Line Regulation	I _o = Full Load		0.5	1	%
Output Power Range	V _{in} = 90 to 264VAC	0		50	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	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
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
PHYSICAL					
Weight		Approximately 535 ~ 560			grams
Dimensions		5.75(L) x 2.99(W) x 1.69(H)			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 CHARTS

SINGLE OUTPUT MODELS					
Model Number	Preset Voltage	Output Voltage Range	Max. Output Current	Total Regulation	Max. Output Power
DTSPU45-100	3 VDC	2 ~ 3 VDC	8.00A max.	7%	24W
DTSPU45-101	5 VDC	3 ~ 5 VDC	8.00A max.	5%	40W
*DTSPU45-102	6 VDC	5 ~ 6 VDC	8.00 ~ 6.66A	5%	40W
*DTSPU45-103	8 VDC	6 ~ 8 VDC	7.00 ~ 5.25A	5%	42W
*DTSPU45-104	11 VDC	8 ~ 11 VDC	5.63 ~ 4.00A	4%	45W
*DTSPU45-105	13 VDC	11 ~ 13 VDC	4.00 ~ 3.46A	3%	45W
*DTSPU45-106	16 VDC	13 ~ 16 VDC	3.46 ~ 2.81A	3%	45W
DTSPU45-107	21 VDC	16 ~ 21 VDC	3.12 ~ 2.38A	3%	50W
DTSPU45-108	27 VDC	21 ~ 27 VDC	2.30 ~ 1.85A	2%	50W
DTSPU45-109	33 VDC	27 ~ 33 VDC	1.85A ~ 1.51A	2%	50W
DTSPU45-110	40 VDC	33 ~ 40 VDC	1.51 ~ 1.25A	2%	50W
DTSPU45-111	50 VDC	40 ~ 50 VDC	1.25 ~ 1.00A	2%	50W

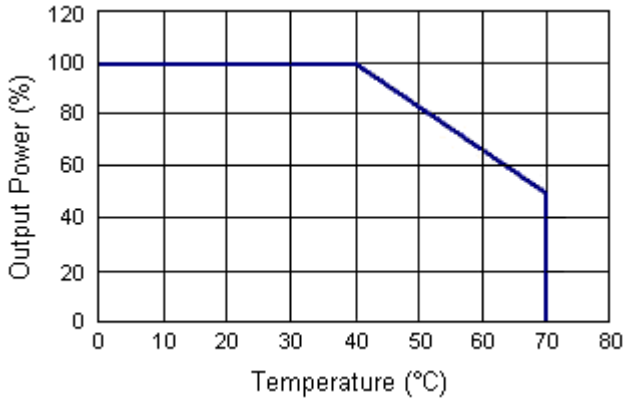
DUAL OUTPUT MODELS						
Model Number	Output Voltage	Min. Output Current	Max. Output Current	Max. Regulation	Max. Output Power	
*DTSPU45-200	Output 1	+3.3 VDC	0.5A	5A	7%	40W
	Output 2	+12.0 VDC	0.3A	2A	5%	
*DTSPU45-201	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+12.0 VDC	0.3A	2A	5%	
*DTSPU45-202	Output 1	+5.0 VDC	0.8A	5A	7%	42W
	Output 2	+15.0 VDC	0.3A	1.5A	5%	
DTSPU45-203	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+24.0 VDC	0.1A	1A	5%	
DTSPU45-204	Output 1	+3.3 VDC	0.5A	5A	7%	26.5W
	Output 2	+5.0 VDC	0.2A	2A	5%	
*DTSPU45-209	Output 1	+12 VDC	0.3A	3A	5%	42W
	Output 3	-12 VDC	0.1A	1A	5%	
*DTSPU45-210	Output 1	+15.0 VDC	0.2A	2A	5%	42W
	Output 3	-15.0 VDC	0.1A	1A	5%	
DTSPU45-215	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 3	-24.0 VDC	0.1A	1A	5%	
DTSPU45-216	Output 1	+5.1 VDC	0A	1A	5%	23.82W
	Output 3	+7.2 VDC	0.2A	2.6A	5%	

TRIPLE OUTPUT MODELS						
Model Number	Output Voltage	Min. Output Current	Max. Output Current	Max. Regulation	Max. Output Power	
*DTSPU45-300	Output 1	+3.3 VDC	1.0A	5A	7%	42W
	Output 2	+12.0 VDC	0.3A	2A	5%	
	Output 3	-12.0 VDC	0.1A	0.8A	5%	
*DTSPU45-301	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+12.0 VDC	0.2A	2A	5%	
	Output 3	-5.0 VDC	0A	0.8A	5%	
*DTSPU45-302	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+12.0 VDC	0.2A	2A	5%	
	Output 3	-12.0 VDC	0A	0.8A	5%	
*DTSPU45-303	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+15.0 VDC	0.3A	2A	6%	
	Output 3	-15.0 VDC	0A	0.8A	5%	
DTSPU45-304	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+24.0 VDC	0.2A	1A	5%	
	Output 3	-24.0 VDC	0A	0.5A	5%	
DTSPU45-305	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+24.0 VDC	0.1A	1A	5%	
	Output 3	-12.0 VDC	0A	0.8A	5%	
*DTSPU45-306	Output 1	+3.3 VDC	0.5A	5A	7%	42W
	Output 2	+12.0 VDC	0.4A	2A	5%	
	Output 3	-5.0 VDC	0A	0.8A	5%	

NOTES

1. For single output models 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. The “ * ” symbol means PSE approval.
3. Models with output voltages under 15VDC have been approved by TUV/PSE.
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 DRAWINGS

Unit: inches [mm]

