

FEATURES

- Splash Proof
- Single Output
- 3 Year Warranty
- A Type: Class I Insulation
- Optional Output Connectors
- CEC and Energy Star Compliance
- 2 Types of Inlet Connectors Available

SPECIFICATIONS: DTSPU20 Series

- Approved as Limited Power Source (LPS)
- Wide Input Voltage 90 to 264VAC, 47~63Hz
- B Type: Class II Insulation (Double Insulation)
- Output Voltages Available from 3VDC to 48VDC







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SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit
INPUT (V _{in})		T	1	1	T
Operating Voltage Range		90 47		264	VAC
Input Frequency				63	Hz
Input Current (Low Line)	lo = Full Load, Vin = 115VAC			0.4	A
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.25	A
Inrush Current (Low Line)	lo = Full Load, 25°C, Cool Start, Vin = 115VAC		12	15	A
Inrush Current (High Line)	lo = Full Load, 25°C, Cool Start, Vin = 230VAC		26	30	A
Safety Ground Leakage Current (A Type)	lo = Full Load, Vin = 240VAC		0.5	0.75	mA
Safety Ground Leakage Current (B Type)	Io = Full Load, Vin = 240VAC		0.15	0.25	mA
Start-Up Time	lo = Full Load, Vin = 100VAC		0.25	0.5	s
OUTPUT (V _o)					•
Output Voltage Range		Se	e Rating Ch	nart	VDC
Load Regulation	Vin = 230VAC	1	3	5	%
Line Regulation	lo = Full Load		0.5	1	%
Output Power Range	Vin = 90 to 264VAC	0		20	W
Output Current Range		See Rating Chart		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					ms
PROTECTION		1	•	,	<u>,</u>
Over Voltage Protection			Nil		%
Over Current Protection		110		150	%
GENERAL			•		<u> </u>
Efficiency	lo = Full Load, Vin = 230VAC	75	85	95	%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
For Primary to Secondary Dielectric Withstanding Voltage			1		
For Primary to Ground (A Type Only)	Primary to Ground	2121			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Power Consumption (No Load)	No Load, Vin = 240VAC	0	0.4	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			300,000		hours
PHYSICAL					
Weight		Approximately 170 grams			
Dimensions		3.90 x 1.65 x 1.22 inches			
Input Inlet		A Type: IEC-320-C6, B Type: IEC-320-C8			
Warranty			3		years
SAFETY					
CISPR (EMI Requirements for CISPR-22)	Vin = 220VAC	В		1	Class
FCC (EMI Requirements for FCC Part-15)	Vin = 110VAC	В	1	1	Class



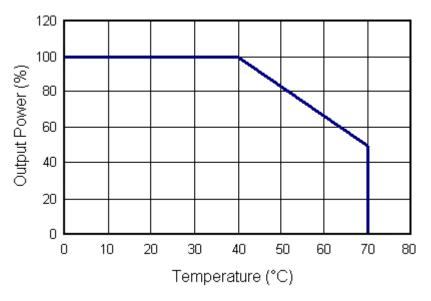
OUTPUT VOLTAGE/ CURRENT RATING CHART

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Max Output Power	AC Inlet Connector	
DTSPU20A-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.50A	5%	15W		
DTSPU20A-105	13 VDC	11 ~ 13 VDC	1.81 ~ 1.53A	4%	20W		
DTSPU20A-106	16 VDC	13 ~ 16 VDC	1.53 ~ 1.25A	4%	20W	IEC-320-C6	
DTSPU20A-108	27 VDC	21 ~ 27 VDC	0.95 ~ 0.74A	3%	20W		
DTSPU20A-109	33 VDC	27 ~ 33 VDC	0.74 ~ 0.60A	3%	20W		
DTSPU20A-111	48 VDC	40 ~ 48 VDC	0.50 ~ 0.41A	3%	20W		
DTSPU20B-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.50A	5%	15W		
DTSPU20B-105	13 VDC	11 ~ 13 VDC	1.81 ~ 1.53A	4%	20W	IEC-320-C8	
DTSPU20B-106	16 VDC	13 ~ 16 VDC	1.53 ~ 1.25A	4%	20W		
DTSPU20B-108	27 VDC	21 ~ 27 VDC	0.95 ~ 0.74A	3%	20W		
DTSPU20B-109	33 VDC	27 ~ 33 VDC	0.74 ~ 0.60A	3%	20W		
DTSPU20B-111	48 VDC	40 ~ 48 VDC	0.50 ~ 0.41A	3%	20W		

NOTES

- 1. The DTSPU20 Series is designated as DTSPU20x-y where x represents the type of AC input inlet connector which can either be A (IEC-320-C6) or B (IEC-320-C8); y can be 102, 103, 104, 105, 106, 107, 108, 109, 110 or 111 for output voltage.
- 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. To meet the total regulation specifications all models must use an AWG#18/4FT output cable. The regulation will change if the output cable is modified.
- 4. The PSE Mark is not for each model. Please contact sales if you need to put the PSE Mark on your products.
- 5. Optional output connectors are available (see "DC Output Plug Selector List" link located at the bottom of the "Desktop" category page).

DERATING CURVE



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MECHANICAL DRAWINGS

Unit: inches [mm]

