Wall Industries, Inc.

DTSPU25 Series
25 Watt
Single Output
AC/DC Desktop Power Supply

FEATURES

- Splash Proof
- Single Output
- 2 Year Warranty
- Optional Output Connectors
- A & C Types: Class I Insulation
- 3 Types of Inlet Connectors Available
- Wide Input Voltage 90 to 264VAC, 47~63Hz
- B Type: Class II Insulation (Double Insulation)
- Output Voltages Available from 3VDC to 48VDC



SPECIFICATIONS: *DTSPU25 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)	Io = Full Load, Vin = 115VAC			0.4	A
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.25	A
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		12	15	A
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		26	30	A
Safety Ground Leakage Current (A & C Types Only)	Io = Full Load, Vin = 240VAC		0.5	0.75	mA
Safety Ground Leakage Current (B Type Only)	Io = Full Load, Vin = 240VAC		0.15	0.25	mA
Start-Up Time	Io = Full Load, Vin = 100VAC		0.25	0.5	s
OUTPUT (V_o)					
Output Voltage Range		See Rating Chart			VDC
Load Regulation	Vin = 230VAC	1	3	5	%
Line Regulation	Io = Full Load		0.5	1	%
Output Power Range	Vin = 90 to 264VAC	0		25	W
Output Current Range		See Rating Chart			A
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	Io = Full Load, Vin = 110VAC	12	14	16	ms
PROTECTION					
Over Voltage Protection			Nil		%
Over Current Protection		110		150	%
GENERAL					
Efficiency	Io = Full Load, Vin = 230VAC	75	85	95	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC
Dielectric Withstanding Voltage For Primary to Ground (A & C Types 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		**A Type:** 4.11 x 1.65 x 1.22 inches **B & C Types:** 3.90 x 1.65 x 1.22 inches			
Input Inlet		IEC-320-C14, IEC-320-C8, IEC-320-C6			
Warranty		2			years
SAFETY					
CISPR (EMI Requirements for CISPR-22)	Vin = 220VAC	B			Class
FCC (EMI Requirements for FCC Part-15)	Vin = 110VAC	B			Class

Wall Industries, Inc. 5 Watson Brook Road Exeter, NH 03833
603-778-2300 www.wallindustries.com Fax 603-778-9797

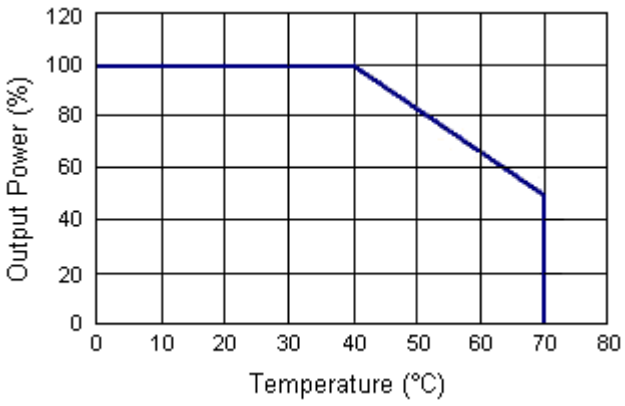
OUTPUT VOLTAGE/ CURRENT RATING CHART

Model Number	Preset Voltage	Output Voltage Range	Output Current	Total Regulation	Max Output Power	AC Inlet Connector
DTSPU25A-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.75A	5%	16.5W	IEC-320-C14
DTSPU25A-103	8 VDC	6 ~ 8 VDC	3.30 ~ 2.50A	5%	20W	
DTSPU25A-104	11 VDC	8 ~ 11 VDC	2.75 ~ 2.00A	5%	22W	
DTSPU25A-105	13 VDC	11 ~ 13 VDC	2.27 ~ 1.92A	5%	25W	
DTSPU25A-106	16 VDC	13 ~ 16 VDC	1.92 ~ 1.56A	5%	25W	
DTSPU25A-107	21 VDC	16 ~ 21 VDC	1.56 ~ 1.19A	5%	25W	
DTSPU25A-108	27 VDC	21 ~ 27 VDC	1.19 ~ 0.92A	3%	25W	
DTSPU25A-109	33 VDC	27 ~ 33 VDC	0.92 ~ 0.75A	3%	25W	
DTSPU25A-110	40 VDC	33 ~ 40 VDC	0.75 ~ 0.62A	3%	25W	
DTSPU25A-111	48 VDC	40 ~ 48 VDC	0.62 ~ 0.52A	3%	25W	
DTSPU25B-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.75A	5%	16.5W	IEC-320-C8
DTSPU25B-103	8 VDC	6 ~ 8 VDC	3.30 ~ 2.50A	5%	20W	
DTSPU25B-104	11 VDC	8 ~ 11 VDC	2.75 ~ 2.00A	5%	22W	
DTSPU25B-105	13 VDC	11 ~ 13 VDC	2.27 ~ 1.92A	5%	25W	
DTSPU25B-106	16 VDC	13 ~ 16 VDC	1.92 ~ 1.56A	5%	25W	
DTSPU25B-107	21 VDC	16 ~ 21 VDC	1.56 ~ 1.19A	5%	25W	
DTSPU25B-108	27 VDC	21 ~ 27 VDC	1.19 ~ 0.92A	3%	25W	
DTSPU25B-109	33 VDC	27 ~ 33 VDC	0.92 ~ 0.75A	3%	25W	
DTSPU25B-110	40 VDC	33 ~ 40 VDC	0.75 ~ 0.62A	3%	25W	
DTSPU25B-111	48 VDC	40 ~ 48 VDC	0.62 ~ 0.52A	3%	25W	
DTSPU25C-102	6 VDC	5 ~ 6 VDC	3.00 ~ 2.75A	5%	16.5W	IEC-320-C6
DTSPU25C-103	8 VDC	6 ~ 8 VDC	3.30 ~ 2.50A	5%	20W	
DTSPU25C-104	11 VDC	8 ~ 11 VDC	2.75 ~ 2.00A	5%	22W	
DTSPU25C-105	13 VDC	11 ~ 13 VDC	2.27 ~ 1.92A	5%	25W	
DTSPU25C-106	16 VDC	13 ~ 16 VDC	1.92 ~ 1.56A	5%	25W	
DTSPU25C-107	21 VDC	16 ~ 21 VDC	1.56 ~ 1.19A	5%	25W	
DTSPU25C-108	27 VDC	21 ~ 27 VDC	1.19 ~ 0.92A	3%	25W	
DTSPU25C-109	33 VDC	27 ~ 33 VDC	0.92 ~ 0.75A	3%	25W	
DTSPU25C-110	40 VDC	33 ~ 40 VDC	0.75 ~ 0.62A	3%	25W	
DTSPU25C-111	48 VDC	40 ~ 48 VDC	0.62 ~ 0.52A	3%	25W	

NOTES

1. The DTSPU25 Series is designated as DTSPU25x-y where x represents the type of AC input inlet connector, which can either be A (IEC-320-C14), B (IEC-320-C8), or C (IEC-320-C6); y can be 102, 103, 104, 105, 106, 107, 108, 109, 110 or 111.
2. The output voltage is specified as a range (Ex: 40 ~ 48 VDC); the customer must specify what they would like the output voltage set at.
3. Models with output voltages under 30VDC 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).

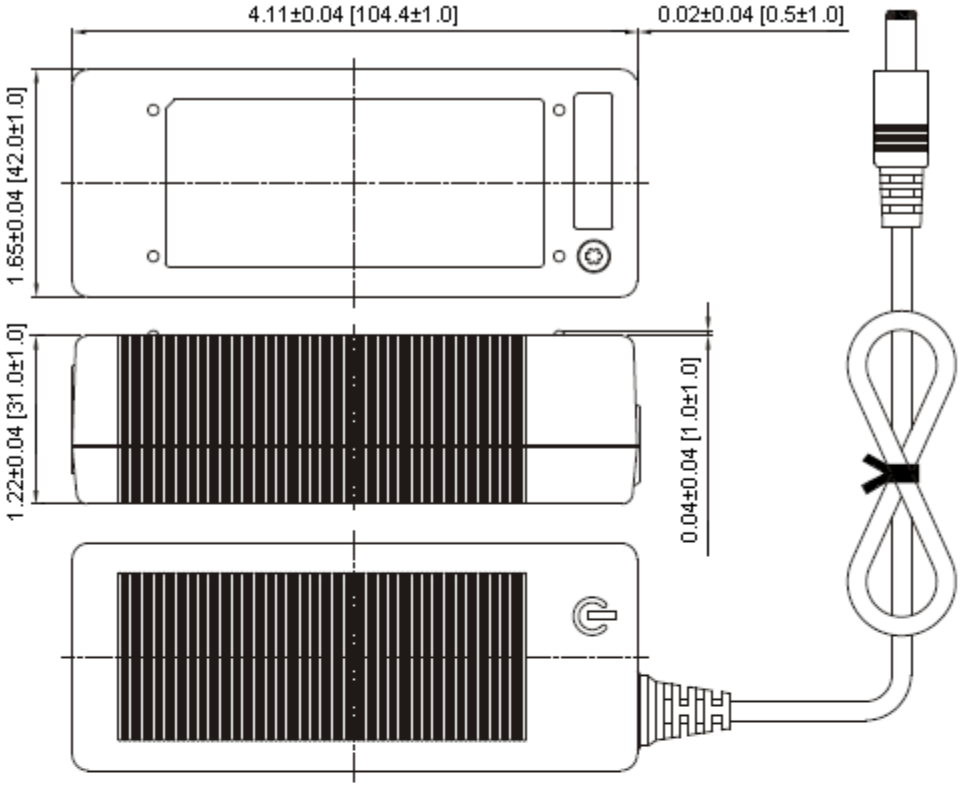
DERATING CURVE



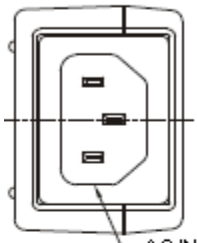
MECHANICAL DRAWINGS

Unit: inches [mm]

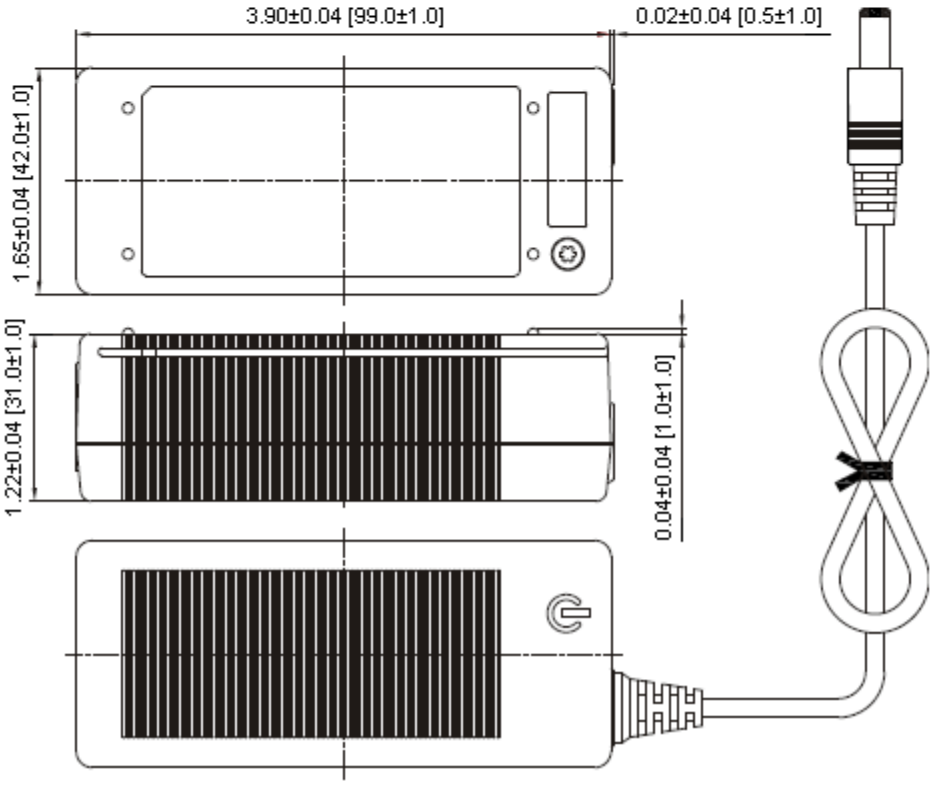
TYPE A



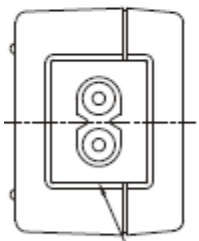
A Type



TYPES B & C



B Type



C Type

