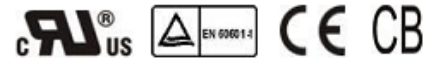


FEATURES

- Splash Proof
- 2 Year Warranty
- Class I Insulation
- IEC 320-C14 Input Inlet
- Optional Output Connectors
- Medical UL2601-1, EN60606-1 Approved
- Single, Dual, and Triple Outputs Available
- Output Voltage Protection (Crowbar Design)
- Wide Input Voltage 90 to 264VAC, 47 to 63Hz
- Output Voltages Available from 2VDC through 50VDC
- Input Surge Current, Over Voltage, and Over Load Protection



SPECIFICATIONS: DTMPU50 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			0.7	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			0.1	mA
Start-Up Time	I _o = Full Load, V _{in} = 100VAC	0.3	1.5	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		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
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
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	5600			VDC
Dielectric Withstanding Voltage For Primary to Ground	Primary to Ground	2800			VDC
Isolation Resistance	Test Voltage = 2100VDC	50			MΩ
ENVIRONMENTAL					
Operating Temperature	Derate linearly from 100% Load at 50°C to 50% load at 70°C	0		+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity		5		95	%
PHYSICAL					
Weight		Approximately 510 - 560			grams
Dimensions		5.75(L) x 2.99(W) x 1.69(H)			inches
Warranty		2			years
SAFETY					
EMI Requirements for CISPR-11	V _{in} = 220VAC	B			Class
EMI Requirements for FCC PART-18	V _{in} = 110VAC	B			Class

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



Wall Industries, Inc.

Rev. B

DTMPU50 Series
Up to 50 Watts
Single, Dual, and Triple Outputs
AC/DC Medical Desktop Power Supply

OUTPUT VOLTAGE / CURRENT RATING CHART

SINGLE OUTPUT MODELS

Model Number	Preset Voltage	Output Voltage Range	Max. Output Current	Total Regulation	Max. Output Power
DTMPU50-100	3 VDC	2 ~ 3 VDC	12.0 ~ 10.0A	7%	30W
DTMPU50-101	5 VDC	3 ~ 5 VDC	10.0 ~ 8.00A	5%	40W
DTMPU50-102	6 VDC	5 ~ 6 VDC	8.00 ~ 6.66A	5%	40W
DTMPU50-103	8 VDC	6 ~ 8 VDC	7.00 ~ 5.25A	5%	42W
DTMPU50-104	11 VDC	8 ~ 11 VDC	5.63 ~ 4.00A	4%	45W
DTMPU50-105	13 VDC	11 ~ 13 VDC	4.00 ~ 3.46A	3%	45W
DTMPU50-106	16 VDC	13 ~ 16 VDC	3.46 ~ 2.81A	3%	45W
DTMPU50-107	21 VDC	16 ~ 21 VDC	3.12 ~ 2.38A	3%	50W
DTMPU50-108	27 VDC	21 ~ 27 VDC	2.30 ~ 1.85A	2%	50W
DTMPU50-109	33 VDC	27 ~ 33 VDC	1.85 ~ 1.51A	2%	50W
DTMPU50-110	40 VDC	33 ~ 40 VDC	1.51 ~ 1.25A	2%	50W
DTMPU50-111	50 VDC	40 ~ 50 VDC	1.25A ~ 1.00A	2%	50W

DUAL OUTPUT MODELS

Model Number	Output Voltage	Min. Output Current	Max. Output Current	Max. Regulation	Max. Output Power	
DTMPU50-200	Output 1	+3.3 VDC	0.5A	5A	7%	40W
	Output 2	+12.0 VDC	0.2A	2A	5%	
DTMPU50-201	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+12.0 VDC	0.2A	2A	5%	
DTMPU50-202	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+15.0 VDC	0.15A	1.5A	5%	
DTMPU50-203	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+24.0 VDC	0.1A	1A	5%	
DTMPU50-204	Output 1	+3.3 VDC	0.5A	5A	7%	26.5W
	Output 2	+5.0 VDC	0.2A	2A	5%	
DTMPU50-209	Output 1	+12 VDC	0.3A	3A	5%	42W
	Output 3	-12VDC	0A	1A	5%	
DTMPU50-210	Output 1	+15 VDC	0.2A	2A	5%	42W
	Output 3	-15 VDC	0.1A	1A	5%	
DTMPU50-215	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 3	-24.0 VDC	0.1A	1A	5%	
DTMPU50-216	Output 1	+5.1 VDC	0.5A	5A	5%	42W
	Output 2	+7.2 VDC	0.3A	2.6A	5%	
DTMPU50-217	Output 1	+10.5 VDC	0.2A	2A	5%	42W
	Output 3	-10.5 VDC	0A	2A	5%	
DTMPU50-218	Output 1	+5.0 VDC	0.5A	5A	5%	35W
	Output 3	-5.0 VDC	0A	2A	5%	

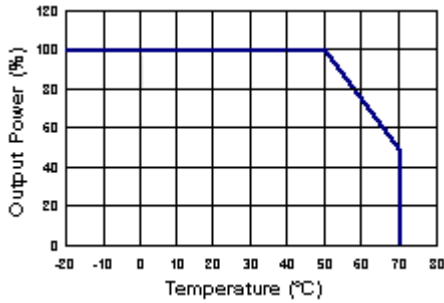
TRIPLE OUTPUT MODELS

Model Number	Output Voltage	Min. Output Current	Max. Output Current	Max. Regulation	Max. Output Power	
DTMPU50-300	Output 1	+3.3 VDC	0.5A	5A	7%	42W
	Output 2	+12.0 VDC	0.4A	2A	5%	
	Output 3	-12.0 VDC	0.1A	0.8A	5%	
DTMPU50-301	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%	
DTMPU50-302	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+12.0 VDC	0.2A	2A	5%	
	Output 3	-12.0 VDC	0.1A	0.8A	5%	
DTMPU50-303	Output 1	+5.0 VDC	0.5A	5A	5%	42W
	Output 2	+15.0 VDC	0.4A	2A	6%	
	Output 3	-15.0 VDC	0.1A	0.8A	5%	
DTMPU50-304	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%	
DTMPU50-305	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%	
DTMPU50-306	Output 1	+3.3 VDC	0.5A	5A	7%	42W
	Output 2	+12.0 VDC	0.4A	2A	5%	
	Output 3	-5.0 VDC	0.1A	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. Optional output connectors are available (see "DC Output Plug Selector List" link located at the bottom of the "Desktop" category page).

DERATING CURVE



MECHANICAL DRAWING

Unit: inches [mm]

