

FEATURES

- Splash Proof
- Single Output
- 3 Year Warranty
- Optional Output Connectors
- Over Temperature Detection
- A & C Types: Class I Insulation
- 3 Types of Inlet Connectors Available
- Over Voltage and Over Load Protection
- Wide Input Voltage 90 to 264VAC, 47~63Hz
- B Type: Class II Insulation (Double Insulation)
- Output Voltages Available from 5VDC to 36VDC



SPECIFICATIONS: DTMPU15 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		0.25	0.33	A
Input Current (High Line)	Io = Full Load, Vin = 230VAC		0.17	0.18	A
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		14	16	A
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		28	30	A
Safety Ground Leakage Current	Io = Full Load, Vin = 240VAC			0.3	mA
Start-Up Time	Io = Full Load, Vin = 100VAC		0.5	1	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		15	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	10	16		ms
PROTECTION					
Over Voltage Protection ⁽¹⁾		112		132	%
Over Current Protection ⁽¹⁾		110		150	%
GENERAL					
Efficiency	Io = Full Load, Vin = 230VAC	73		85	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	5600			VDC
Dielectric Withstanding Voltage For Primary to Ground (A & C Types Only)	Primary to Ground	2800			VDC
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Power Consumption (No Load)	No Load, Vin = 230VAC	0	0.4	0.5	W
ENVIRONMENTAL					
Operating Temperature	Derate linearly from 100% Load at 50°C to 50% load at 70°C	0	50	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
Thermal Shutdown by Junction Temperature Controller ⁽¹⁾	The parameter is not subject to production test-verified by design/characterization of integrated controller.	-20		+125	°C
MTBF	Operating temperature at 25°C, calculated per MIL-HDBK-217F	100,000			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		3			years
SAFETY					
EMI Requirements for EN55022	Vin = 230VAC, 50Hz	B			Class
EMI Requirements for FCC Part-15, FCC Part 18	Vin = 120VAC, 60Hz	B			Class

(1) When the power system interruption is isolated, the product would re-start after recovering by hand.

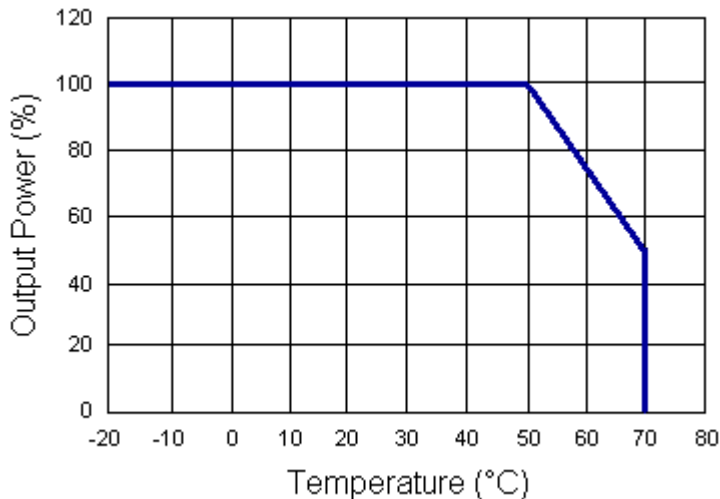
OUTPUT VOLTAGE/ CURRENT RATING CHART

Model Number	Output Voltage	Output Current	Total Regulation ⁽²⁾	Maximum Output Power
DTMPU15x-102	5 VDC	2.60A	5%	13W
DTMPU15x-103	7 VDC	1.85A	5%	13W
DTMPU15x-104	9 VDC	1.66A	5%	15W
DTMPU15x-105	12 VDC	1.25A	5%	15W
DTMPU15x-106	16 VDC	0.93A	5%	15W
DTMPU15x-107	18 VDC	0.83A	5%	15W
DTMPU15x-108	24 VDC	0.62A	3%	15W
DTMPU15x-109	30 VDC	0.50A	3%	15W
DTMPU15x-110	36 VDC	0.41A	3%	15W

NOTES

1. The DTMPU15 Series is designated as DTMPU15x-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, or 110 for output voltage.
2. Models DTMPU15-102, 103, and 105 needs to use AWG#16/4FT output cable in order to meet the total regulation. Models DTMPU15-104, 106~110 needs to use AWG#18/4FT output cable in order to meet the total regulation. The regulation and efficiency will change if a different output cable is used.
3. 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]

