

### **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 Seri					
	sed on 25°C, Nominal Input Voltage, and Maximum Output Current userve the right to change specifications based on technological adva		rwise noted	l.	
SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit
INPUT (V <sub>in</sub> )		<u> </u>		<u> </u>	
Operating Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	Io = Full Load, Vin = 115VAC		0.25	0.33	Α
Input Current (High Line)	Io = Full Load, Vin = 230VAC		0.17	0.18	Α
Inrush Current (Low Line)	lo = Full Load, 25°C, Cool Start, Vin = 115VAC		14	16	Α
Inrush Current (High Line)	lo = Full Load, 25°C, Cool Start, Vin = 230VAC		28	30	Α
Safety Ground Leakage Current	Io = Full Load, Vin = 240VAC			0.3	mA
Start-Up Time	lo = Full Load, Vin = 100VAC		0.5	1	S
OUTPUT (V <sub>o</sub> )	To Tan Load, VIII 100 VIIO		0.0	•	
Output Voltage Range		Se	e Rating Cl	hart	VDC
Load Regulation	Vin = 230VAC	1	3	5	%
Line Regulation	lo = Full Load	'	0.5	1	%
Output Power Range	Vin = 90 to 264VAC	0	0.0	15	W
Output Current Range	VIII OO LO ZOTVAO	_	l e Rating Cl		A
Ripple & Noise (peak to peak)	Full Load, Vin = 90VAC	36	0.5	1	%
Transient Response	lo = Full Load to Half Load, Vin = 100VAC		0.5	4	
Hold-Up Time	lo = Full Load. Vin = 110VAC	10	16	4	ms ms
PROTECTION	10 - Full Load, VIII - TTOVAC	10	10		1115
Over Voltage Protection <sup>(1)</sup>		110	1	132	%
Over Current Protection Over C		112			
		110	ļ	150	%
GENERAL	1- Full 1 Viz. 000VA 0	70	T	0.5	0/
Efficiency	lo = Full Load, Vin = 230VAC	73		85	%
Dielectric Withstanding Voltage	Primary to Secondary	5600			VDC
For Primary to Secondary	,				
Dielectric Withstanding Voltage	Primary to Ground	2800			VDC
For Primary to Ground (A & C Types Only)	T1/-11 F00//D0	50			140
Isolation Resistance	Test Voltage = 500VDC	50	0.4	0.5	MΩ W
Power Consumption (No Load)	No Load, Vin = 230VAC	0	0.4	0.5	VV
ENVIRONMENTAL	T				1 00
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	The parameter is not subject to production test-verified by	-20		+125	°C
Temperature Controller <sup>(1)</sup>	design/characterization of integrated controller.		L	1	
MTBF	Operating temperature at 25°C, calculated per MIL-HDBK-217F		100,000		hours
PHYSICAL					
Weight				ly 170 grar	
Dimensions		<b>A Type:</b> 4.11 x 1.65 x 1.22 inches <b>B &amp; C Types:</b> 3.90 x 1.65 x 1.22 inches			
Input Inlet		IEC-320-	C14, IEC-3	20-C8, IEC	-320-C6
Warranty			3		years
SAFETÝ					
EMI Requirements for EN55022	Vin = 230VAC, 50Hz	В			Class
EMI Requirements for FCC Part-15, FCC		_			
Part 18	Vin = 120VAC, 60Hz	В			Class

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



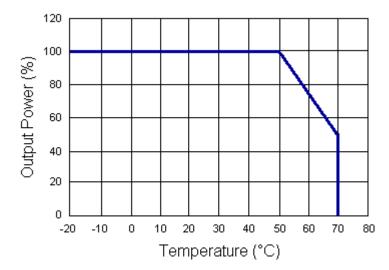
#### **OUTPUT VOLTAGE/ CURRENT RATING CHART**

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).

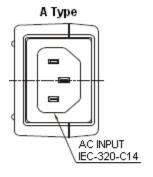
### **DERATING CURVE**



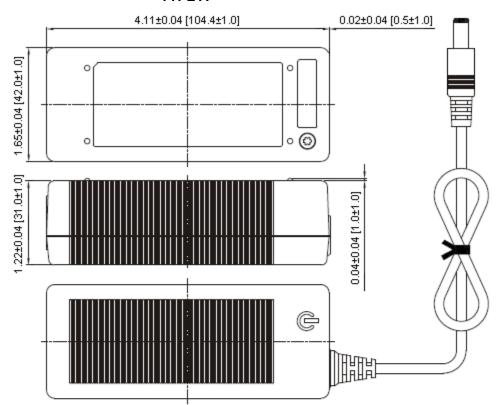


## **MECHANICAL DRAWINGS**

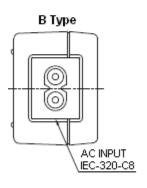
# Unit: inches [mm]

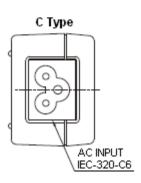


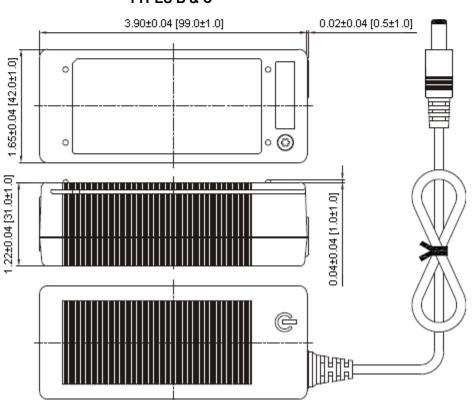
# TYPE A



### TYPES B & C







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