



Size:

2.20 x 1.73 x 1.08 inches  
56.0 x 44.0 x 27.5 mm

**Economy Version**



**FEATURES**

- Class II
- RoHS Compliant
- 10 Watts Output Power
- Single Outputs
- 85% High Efficiency
- Energy Star 2.0, Efficiency Level VI (Except models 5~11V)
- 90-264VAC Input Voltage Range
- 1 Year Warranty
- Approved as Limited Power Source (LPS)
- UL/cUL (UL 60950-1: 2nd Edition) Safety Approvals
- Meets FCC Class B Emission Limits
- 2 Prong Plug-In Mains Connector
- 100% Burn-In Tested
- Optional Output Connectors Available
- Short Circuit Protection

**DESCRIPTION**

The WMEPU10 series of AC/DC wall mount power supplies provides 10 watts of continuous output power in a 2.20 x 1.73 x 1.08 inch package. This series consists of models with an input voltage range of 90~264VAC and single outputs ranging from 5VDC to 48VDC. All units are UL 94V-1 and RoHS compliant, and models over 11V are Energy Star Level VI compliant. This series also meets new CE requirements and FCC class B emission limits. All models have UL/cUL (UL 60950-1: 2nd edition) and TUV/GS (EN 60950-1: 2nd edition) safety approvals. All units have been 100% burn-in tested.

**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage <sup>(1)</sup>	Output Current	Total Regulation <sup>(2)</sup>	Output Power	Efficiency	No-Load Power Consumption
WMEPU10-102	90 ~ 264VAC	5~5.99 VDC	1.33~1.60A	±5%	8W	77.12%	0.1W
WMEPU10-103		6.5~8 VDC	1.00~1.23A	±5%	8W	80.64%	0.1W
WMEPU10-104		8~11 VDC	0.90~1.25A	±5%	10W	81.95%	0.1W
WMEPU10-105		11 ~ 13 VDC	0.76~0.90A	±5%	10W	81.95%	0.1W
WMEPU10-106		13 ~ 16 VDC	0.62~0.76A	±5%	10W	81.95%	0.1W
WMEPU10-107		16 ~ 21 VDC	0.47~0.62A	±5%	10W	81.95%	0.1W
WMEPU10-108		21 ~ 27 VDC	0.37~0.47A	±4%	10W	81.95%	0.1W
WMEPU10-109		27 ~ 33 VDC	0.30~0.37A	±4%	10W	83%	0.1W
WMEPU10-110		33 ~ 40 VDC	0.25~0.30A	±4%	10W	84%	0.1W
WMEPU10-111		40 ~ 48 VDC	0.20~0.25A	±4%	10W	85%	0.1W

**SPECIFICATIONS: WMEPU10 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.

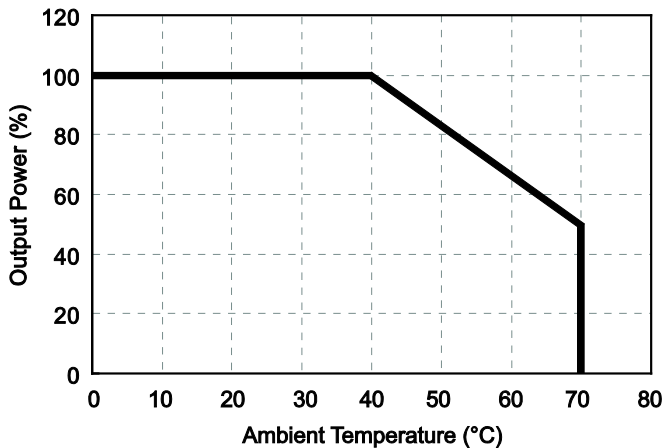
SPECIFICATION		TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>						
Input Voltage		Safety Approvals Input Voltage Range	100		240	VAC
		Operating Input Voltage Range	90		264	
Input Frequency			47		63	Hz
Input Current	Low Line	100VAC, Full Load			0.3	A
	High Line	240VAC, Full Load			0.2	
Inrush Current	Low Line	115VAC, Full Load, 25°C, cold start	25		35	A
	High Line	230VAC, Full Load, 25°C, cold start	50		70	
No Load Power Consumption		230VAC, No Load			0.1	W
<b>OUTPUT SPECIFICATIONS</b>						
Output Voltage			See Table			
Line Regulation <sup>(4)</sup>		Io=Full load	0.5		1	%
Load Regulation <sup>(5)</sup>		Vin=230VAC, 10~90% Load Change at Condition	4		5	%
Output Power			See Table			
Output Current			See Table			
Ripple & Noise (peak to peak) <sup>(6)</sup>		90VAC, Full Load			100	mVp-p
Hold-up Time <sup>(7)</sup>		110VAC, Full Load		10		ms
Start-up Time		100~240VAC, Full Load			3	s
Transient Response Time		110VAC, Full Load			4	ms
Temperature Coefficient		Full Load, Vin=100~240VAC			±0.04	%/°C
<b>PROTECTION</b>						
Short Circuit Protection			Automatic Recovery			
Over Load Protection		None, but output is protected against short circuit conditions				
<b>GENERAL SPECIFICATIONS</b>						
Efficiency		230 VAC, full load	71		85	%
Dielectric Withstanding Voltage		Primary to Secondary			4242	VDC
Leakage Current		240VAC/60Hz			0.25	mA
<b>ENVIRONMENTAL SPECIFICATIONS</b>						
Operating Temperature		Derating linearly from 100% Load at 40°C to 50% load at 70°C	0		+70	°C
Storage Temperature		10~95% RH	-40		+85	°C
Operating Humidity		Non-Condensing	0		95	%
Storage Humidity			0		95	%
Electro Static Discharge	Air Discharge, IEC61000-4-2				8	kV
	Contact Discharge, IEC61000-4-2				6	
Operating Altitude		All conditions			3000	m
Vibration		10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral				1	kV
	Line-PE & Neutral-PE				2	
Flammability			UL94V-1			
Cooling			Free air convection			
MTBF		MIL-HDBK-217F, 25°C	100,000			hours
<b>PHYSICAL SPECIFICATIONS</b>						
Weight			3.17oz (90g)			
Dimensions (L x W x H)			2.20 x 1.73 x 1.08 in (56.0 x 44.0 x 27.5 mm)			
AC Plug			US Type			
Output Connector			Several options available			
<b>SAFETY &amp; COMPLIANCE</b>						
Safety Approvals			UL/cUL (UL60950-1: 2 <sup>nd</sup> edition) <sup>(9)</sup> , CE			
Emission Limits		FCC Part 15 CISPR-22	B			Class
Compliance			RoHS and UL 94V-1			
CEC & Energy Star			CEC and Energy Star 2.0, Efficiency Level V, VI			

**NOTES**

1. The output voltage is specified as a range (ex: 40~48VDC); the customer must specify what they would like the output voltage set at. Output can provide up to peak load when the power supply starts up. Staying in more than rated load continually is not allowed. Each output checked to be within voltage accuracy in 60% rated load condition.
  2. Models DTEPU10A-102~105 need to use AWG#20/4FT output cable in order to meet the total regulation specified. Models DTEPU10A-106~108 need to use AWG#22/4FT output cable in order to meet the total regulation specified. Models DTEPU10A-109~111 need to use AWG#24/4FT output cable in order to meet the total regulation specified. The regulation and efficiency will change if a different output cable is used.
  3. Optional output connectors are available for this series. Please call factory for ordering details.
  4. Line regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
  5. Load regulation is defined by changing  $\pm 40\%$  of measured output load from 60% rated load
  6. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47 $\mu$ F capacitor at rated load and nominal line.
  7. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
  8. Efficiency is measured at rated load and nominal line.
  9. This product is Listed to applicable standards and requirements by UL.
- \*Due to advances in technology, specifications subject to change without notice.*

**DERATING CURVE**

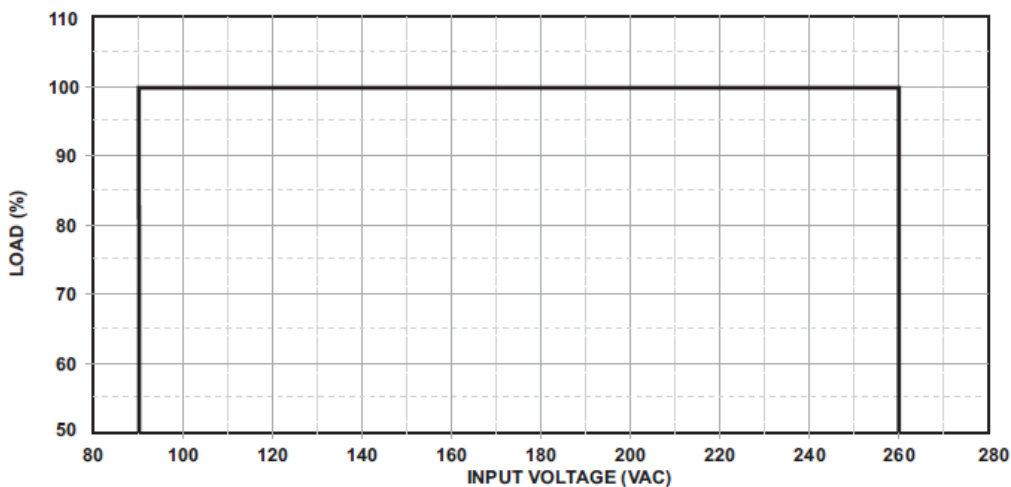
Temperature Derating Curve



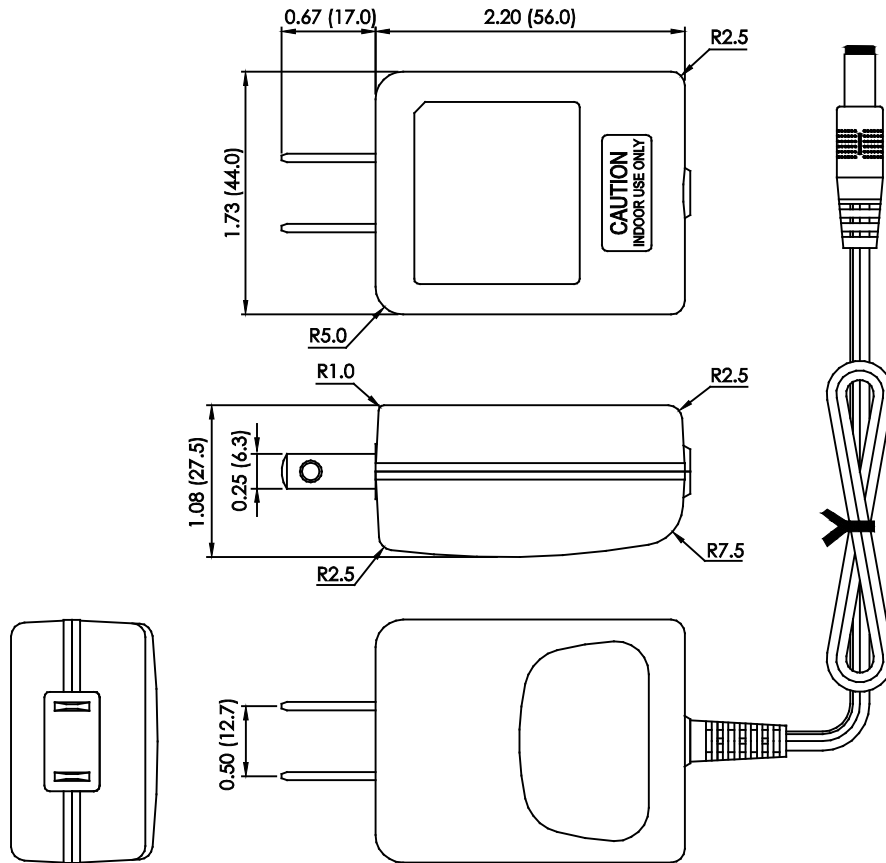
**NOTES**

1. Operating Temperature: 0 to +70°C
2. Derating linearly from 100% load at 40°C to 50% load at 70°C

Input Voltage Derating Curve



MECHANICAL DRAWING



- NOTES
1. Unit: inches (mm)
  2. Tolerance:  $\pm 0.04$  ( $\pm 1.0$ )
  3. Weight: 3.17oz (90g)
  4. Optional output connectors available
  5. All dimensions are for reference only

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

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