



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 ⁽¹⁾	Output Current	Total Regulation ⁽²⁾	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.

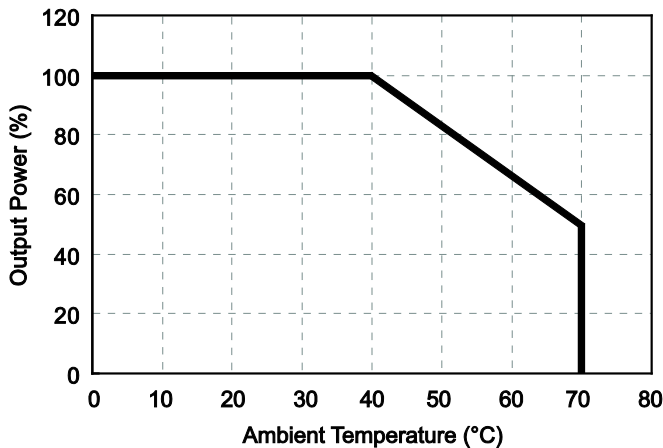
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage	Safety Approvals Input Voltage Range	100		240	VAC
	Operating Input Voltage Range	90		264	
Input Frequency		47		63	Hz
Input Current	Low Line	100VAC, Full Load		0.3	A
	High Line	240VAC, Full Load		0.2	
Inrush Current	Low Line	115VAC, Full Load, 25°C, cold start		25	A
	High Line	230VAC, Full Load, 25°C, cold start		50	
No Load Power Consumption	230VAC, No Load			0.1	W
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation ⁽⁴⁾	Io=Full load	0.5		1	%
Load Regulation ⁽⁵⁾	Vin=230VAC, 10~90% Load Change at Condition	4		5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (peak to peak) ⁽⁶⁾	90VAC, Full Load			100	mVp-p
Hold-up Time ⁽⁷⁾	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
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Load Protection		None, but output is protected against short circuit conditions			
GENERAL SPECIFICATIONS					
Efficiency	230 VAC, full load	71		85	%
Dielectric Withstanding Voltage	Primary to Secondary			4242	VDC
Leakage Current	240VAC/60Hz			0.25	mA
ENVIRONMENTAL SPECIFICATIONS					
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
PHYSICAL SPECIFICATIONS					
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			
SAFETY & COMPLIANCE					
Safety Approvals		UL/cUL (UL60950-1: 2 nd edition), 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 μ 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.

DERATING CURVE

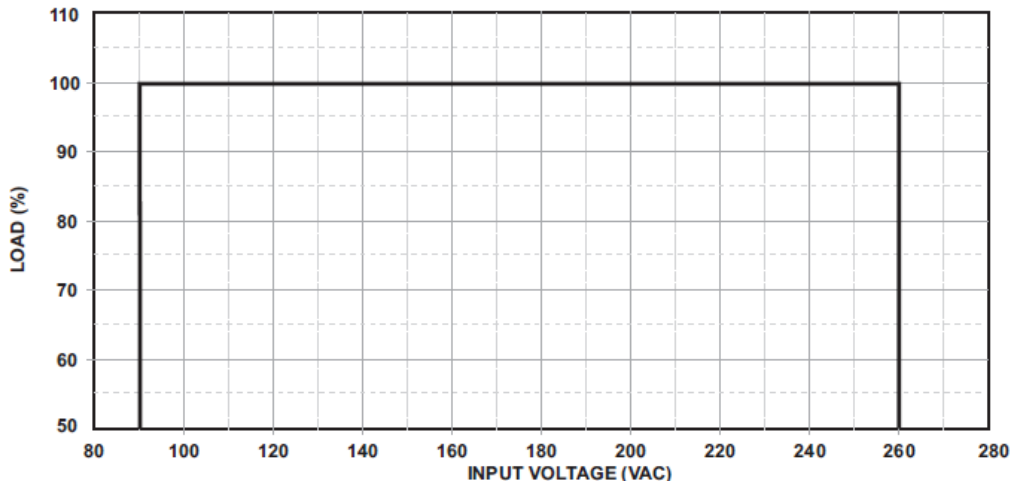
Temperature Derating Curve



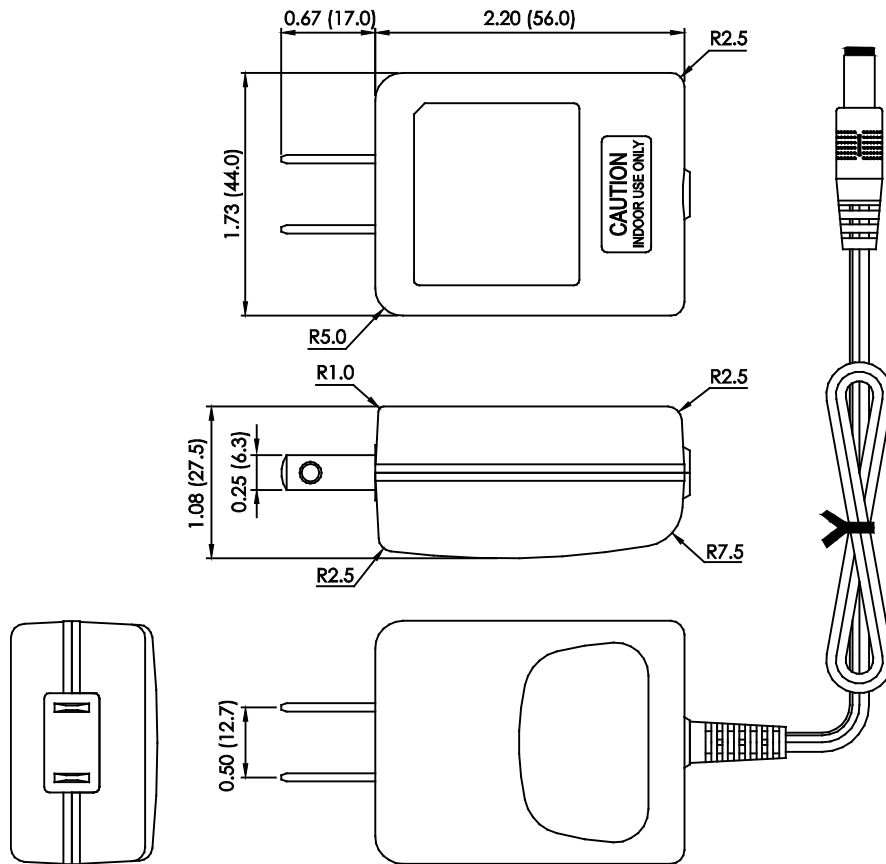
NOTES

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: ± 0.04 (± 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 ISO9001-2008 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.

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