



Size: 2.36in x 1.71in x 1.58in (60mm x 43.5mm x 40.2mm)

OPTIONS

- Output Connectors
- Interchangeable Plugs (US, EU, UK, K)
- Output Voltages

FEATURES

- Class II
- Up to 15 Watts
- RoHS Compliant
- Energy Star 2.0, Efficiency Level VI Compliant
- Single Output Voltages Available from 5VDC to 48VDC
- 100% Burn-In Tested
- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- UL 60950-1:2nd Edition, IEC 60950-1:2005/A2:2013, and EN60950-1:2006/A2:2013 Safety Approvals
- Meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits
- Interchangeable Plug Options: EU, UK, AUS, and US Types
- Optional Output Connectors

APPLICATIONS

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-Top Box
- AV Equipment

DESCRIPTION

The WMIEPU15 Series of Class II AC/DC wall mount power supplies offers up to 15 watts of output power in a 2.36" x 1.71" x 1.58" package. This series consists of single output models ranging from 5 to 48VDC with a wide input voltage range of 90~264VAC. This series meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits and has UL 60950-1:2nd Edition, IEC 60950-1:2005/A2:2013, and EN60950-1:2006/A2:2013 safety approvals. All units are RoHS and Energy Star Level VI compliant. Plugs come in United States (US), Europe (EU), Australia (AUS), and United Kingdom (UK) types. Plugs are sold separately so please contact factory for ordering details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage ⁽²⁾	Output Current	Ripple & Noise	Total Regulation ⁽³⁾	Output Power	Efficiency
WMIEPU15-102x	90~264VAC	5~5.99VDC	2.00~2.40A	100mVp-p	±5%	12W	80%
WMIEPU15-103x		6.5~8	1.50~1.84A	130mVp-p	±5%	12W	83%
WMIEPU15-104x		8~11	1.22~1.68A	160mVp-p	±5%	13.5W	83.6%
WMIEPU15-105x		11~13	1.15~1.36A	220mVp-p	±5%	15W	84.2%
WMIEPU15-106x		13~16	0.94~1.15A	260mVp-p	±5%	15W	84.2%
WMIEPU15-107x		16~21	0.72~0.94A	300mVp-p	±5%	15W	84.2%
WMIEPU15-108x		21~27	0.55~0.72A	300mVp-p	±4%	15W	84.2%
WMIEPU15-109x		27~33	0.45~0.55A	300mVp-p	±4%	15W	85%
WMIEPU15-110x		33~40	0.37~0.45A	330mVp-p	±4%	15W	86%
WMIEPU15-111x		40~48	0.32~0.37A	400mVp-p	±4%	15W	86%

SPECIFICATIONS

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.

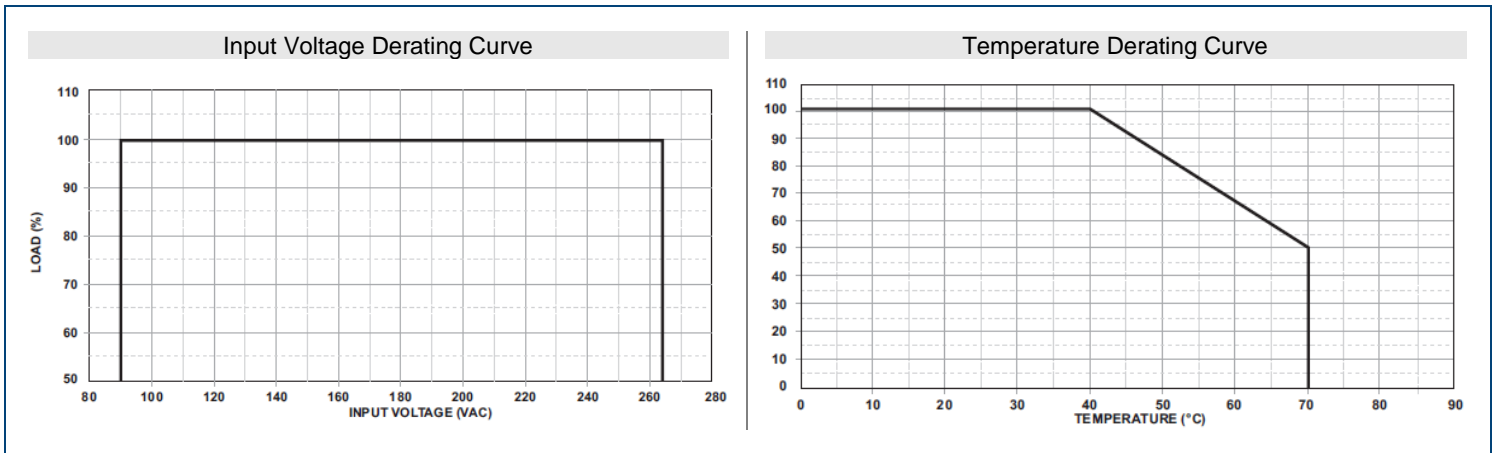
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Operating Voltage Range	Operating Input Voltage Range	90		264	VAC
	Safety Approvals Input Voltage Range	100		240	
Input Frequency		47		63	Hz
Input Current	Low Line	Io=Full Load, Vin=115VAC		0.4	A
	High Line	Io=Full Load, Vin=230VAC		0.2	
Inrush Current	Low Line	Io=Full Load, 25°C, Cool Start, Vin=115VAC		35	A
	High Line	Io=Full Load, 25°C, Cool Start, Vin=230VAC		70	
No Load Power Consumption	No Load, Vin=230VAC			0.3	W
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Load Regulation ⁽⁵⁾	Vin=230VAC, 10~90% Load Change at Condition	4		5	%
Line Regulation ⁽⁶⁾	Io=Full Load, Vin=230VAC	0.5		1	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise ⁽⁷⁾		See Table			
Transient Response Time	Io=Full Load, Vin=110VAC			4	mS
Hold-Up Time ⁽⁸⁾	Io=Full Load, Vin=100VAC		8		mS
Start-Up Time	Io=Full Load, Vin=100~240VAC			3	s
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C
PROTECTION					
Short Circuit Protection		Automatic Recovery			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derate linearly from 100% Load at 40°C to 50% load at 70°C	0	40	70	°C
Storage Temperature	10~95%RH	-40		85	°C
Operating Humidity	Non-condensing	0		95	%RH
Storage Humidity		0		95	%RH
Operating Altitude	All Conditions			2000	M
Vibration	10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
MTBF	Operating Temp. at 25°C, calculated per MIL-HDBK-217F	0.1			M Hrs
GENERAL SPECIFICATIONS					
Efficiency	Io=Full Load, Vin=230VAC	See Table			
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
Surge Voltage	Line-Neutral			1	kV
	Line-PE & Neutral-PE			2	kV
Cooling		Free Air Convection			
PHYSICAL SPECIFICATIONS					
Weight		Approx. 5.8oz (165g)			
Dimensions (L x W x H)		2.36 x 1.71 x 1.58 inches (60.0 x 43.5 x 40.2mm)			
AC Plug		US, EU, AUS, and UK Types			
Output Connector	WMIEPU15-102~107	AWG#18/4FT			
	WMIEPU15-108~111	AWG#20/4FT			
Flammability Rating		UL94V-1			
SAFETY & EMC CHARACTERISTICS					
Safety Approvals	UL 60950-1:2 nd Edition IEC 60950-1:2005/A2:2013 EN60950-1:2006/A2:2013				
EMC Emission	Compliance to EN55022 (CISPR22)	B Class			
Protection Class		Double Insulated, Class II			
Electro Static Discharge	IEC61000-4-2	Air Discharge		8	kV
		Contact Discharge		6	

NOTES

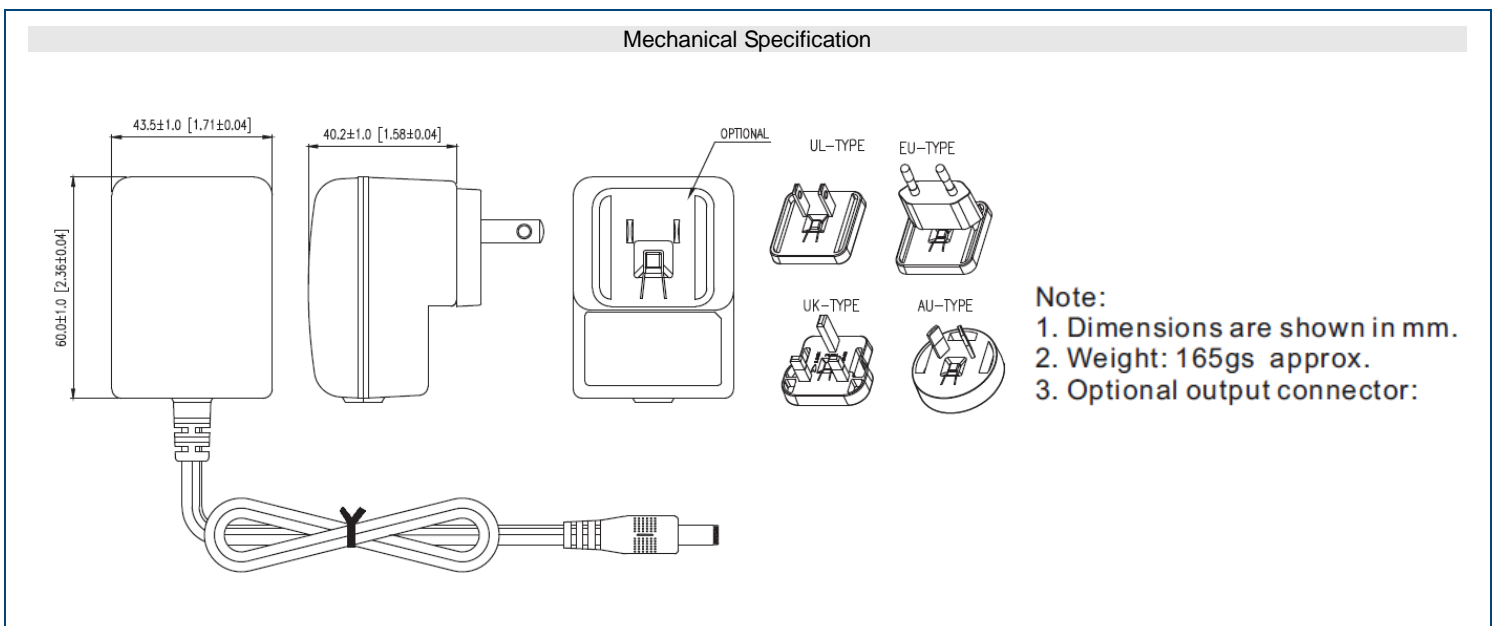
- (1) The "x" in the model number can be "U" for US type plug; "E" for EU type plug, "A" for AUS type plug, or "K" for UK type plug.
- (2) The output voltage is specified as a range (Ex: 40~48VDC); the customer must specify what they want the voltage set at.
- (3) Output can provide up to peak load when power supply starts up. Staying in more than rated load continually is not allowed.
- (4) At factory, in 60% load condition, each output is checked to be within voltage accuracy.
- (5) Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- (6) Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load.
- (7) Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- (8) 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.
- (9) Models WMIEPU15-102~107 need to use AWG#18/4FT output cable in order to meet the total regulation specified. Models WMIEPU15-108~111 need to use AWG#20/4FT output cable in order to meet the total regulation specified. The electrical characteristics will be changed by modified output cable.
- (10) Plugs are sold separately, please contact factory for ordering details.
- (11) Optional output connectors are available. Please call factory for more information.

Due to advances in technology, specifications are subject to change without notice.

DERATING CURVES



MECHANICAL DRAWINGS



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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