

Size: 2.36in x 1.71in x 1.58in

**OPTIONS**

- Interchangeable Plug (US, EU, UK, AUS options)
- Output Connectors
- Output Voltage

**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
- MTBF>100,000 Hours
- UL/cUL (UL60950-1:2<sup>nd</sup> Edition), TUV/GS (EN60950-1:2<sup>nd</sup> Edition), and CE Safety Approvals
- Meets FCC Part 15 Class B and CISPR-22 Class B Emission Limits
- Optional Output Connectors Available

**APPLICATIONS**

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

**DESCRIPTION**

The WMISPU15 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/cUL (UL60950-1:2<sup>nd</sup> Edition), TUV/GS (EN60950-1:2<sup>nd</sup> Edition), and CE 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 <sup>(1)</sup>	Input Voltage Range	Output Voltage <sup>(2)</sup>	Output Current	Ripple & Noise	No Load Power Consumption	Total Regulation <sup>(3)</sup>	Output Power	Efficiency
WMISPU15-102x	90~264VAC	5~5.99VDC	2.40~2A	1% Max.	0.3W	5%	12W	74.7~85%
WMISPU15-103x		6.5~8VDC	1.85~1.50A			5%	12W	
WMISPU15-104x		8~11VDC	1.68~1.22A			5%	13.5W	
WMISPU15-105x		11~13VDC	1.36~1.15A			5%	15W	
WMISPU15-106x		13~16VDC	1.15~0.94A			5%	15W	
WMISPU15-107x		16~21VDC	0.94~0.72A			5%	15W	
WMISPU15-108x		21~27VDC	0.72~0.55A			3%	15W	
WMISPU15-109x		27~33VDC	0.55~0.45A			3%	15W	
WMISPU15-110x		33~40VDC	0.45~0.37A			3%	15W	
WMISPU15-111x		40~48VDC	0.37~0.32A			3%	15W	

**SPECIFICATIONS**

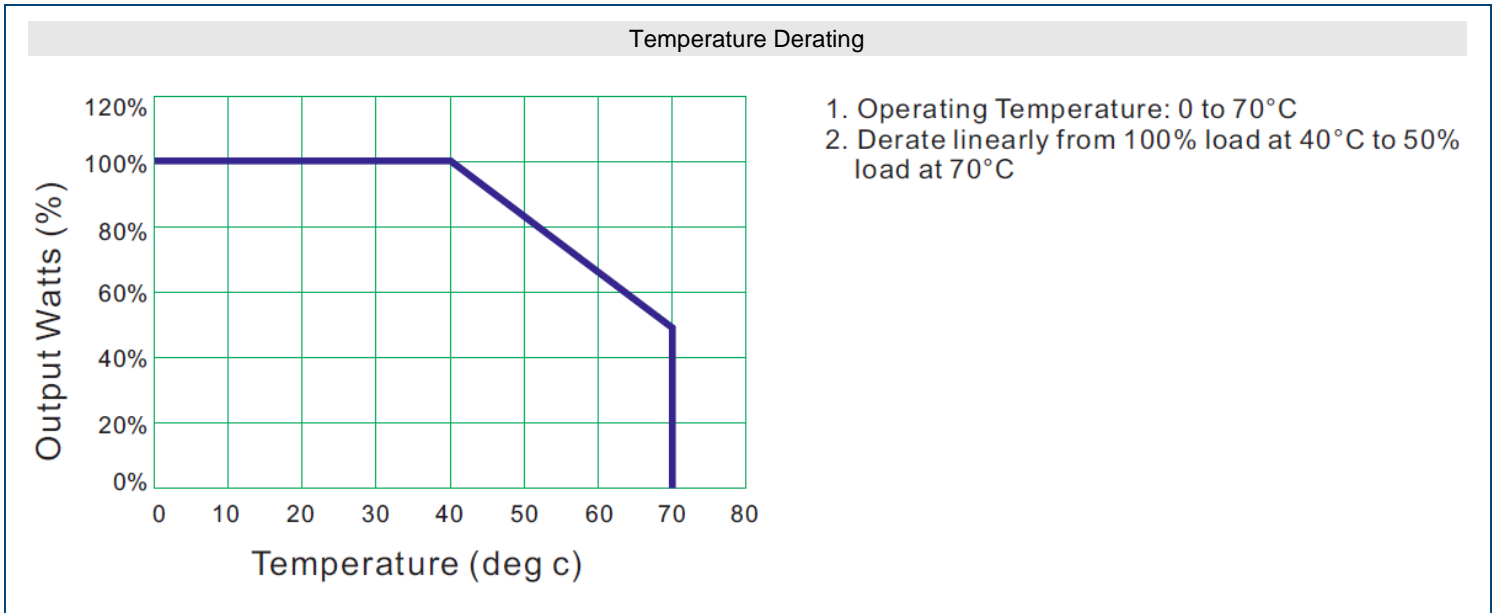
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.  
 We reserve the right to change specifications based on technological advances.

SPECIFICATION		TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>						
Input 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			0.26	
Inrush Current	Low Line	Io=Full Load, 25°C, Cool Start, Vin=115VAC	40		45	A
	High Line	Io=Full Load, 25°C, Cool Start, Vin=230VAC	80		90	
No Load Power Consumption		No Load, Vin=230VAC			See Table	
<b>OUTPUT SPECIFICATIONS</b>						
Output Voltage					See Table	
Line Regulation		Io=Full Load	0.5		1	%
Load Regulation		Vin=230VAC	3		5	%
Output Power					See Table	
Output Current					See Table	
Ripple & Noise (peak-to-peak)		Full Load, Vin=90VAC			1	%
Transient Response Time		Io=Full Load to Half Load, Vin=100VAC			4	ms
Start-Up Time		Io=Full Load, Vin=100VAC			3	S
Hold-Up Time		Io=Full Load, Vin=110VAC	12			mS
Temperature Coefficient		All Outputs	-0.04		+0.04	%/°C
<b>PROTECTION</b>						
Over Voltage Protection					None	
Over Temperature Protection					None, but output is protected against short circuit conditions	
<b>ENVIRONMENTAL SPECIFICATIONS</b>						
Operating Temperature <sup>(4)</sup>		Derate linearly from 100% Load at 40°C to 50% load at 70°C	0	40	70	°C
Storage Temperature			-40		85	°C
Operating Humidity			0		95	%
Storage Humidity			0		95	%
MTBF		Operating Temperature at 25°C, calculated per MIL-HDBK-217F	100,000			hours
<b>GENERAL SPECIFICATIONS</b>						
Efficiency		Io=Full Load, Vin=230VAC	74.7		85	%
Dielectric Withstanding Voltage		Primary to Secondary	4242			VDC
Leakage Current		Vin=240VAC/60Hz			0.25	mA
<b>PHYSICAL SPECIFICATIONS</b>						
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					Optional Output Connectors Available	
<b>SAFETY</b>						
Safety Approvals			UL/cUL (UL 60950-2: 2 <sup>nd</sup> Edition) TUV/GS (EN 60950-1: 2 <sup>nd</sup> Edition)			
EMI Requirements for CISPR-22		Vin=220VAC			Class B	
EMI Requirements for FCC Part-15		Vin=120VAC			Class B	

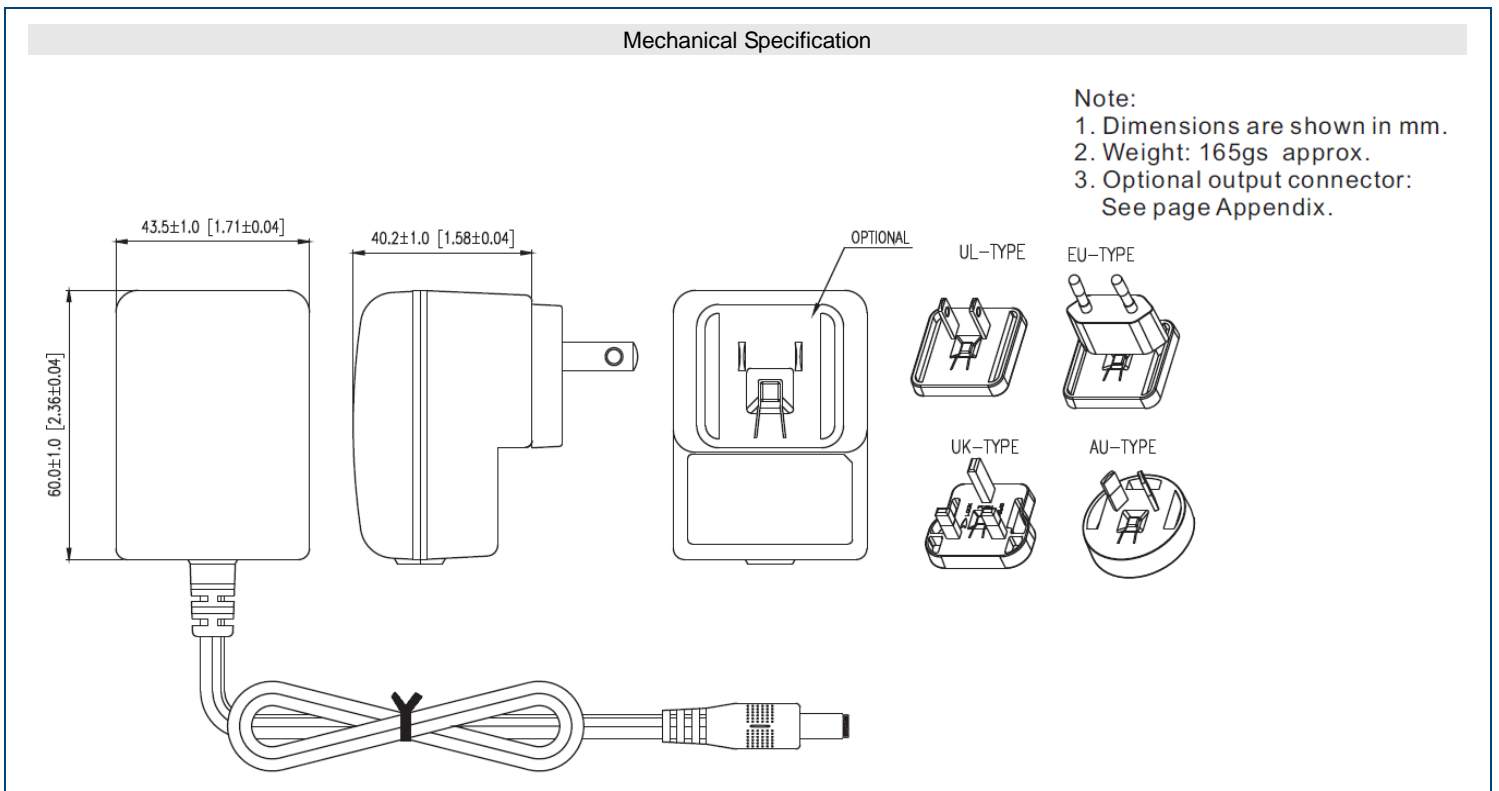
**NOTES**

- (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) Models WMISPU15-102~104 need to use AWG#18/4FT output cable in order to meet the total regulation specified.  
 Models WMISPU15-105~109 need to use AWG#20/4FT output cable in order to meet the total regulation specified.  
 Models WMISPU15-110~111 need to use AWG#22/4FT output cable in order to meet the total regulation specified.  
 The regulation and efficiency will change if a different output cable is used.
- (4) Please see derating curve.
- (5) Plugs are sold separately; please contact factory for ordering details.
- (6) Optional output connectors are available. Please call factory for more information.

DERATING CURVES



MECHANICAL DRAWINGS



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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.

Contact **Wall Industries** for further information:

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