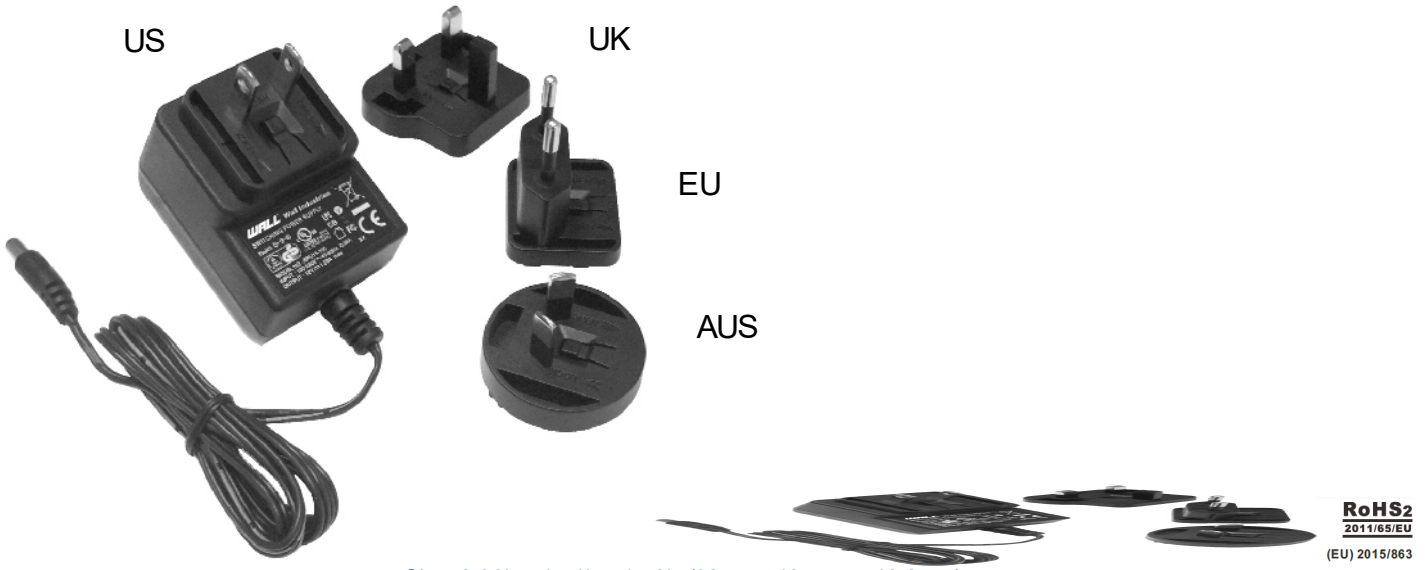


Size: 2.36in x 1.71in x 1.58in (60mm x 43.5mm x 40.2mm)

OPTIONS

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

FEATURES

- Double Insulated, Class II
- Up to 15 Watts
- RoHS Compliant
- Efficiency Level VI Compliant
- Single Output Voltages Available from 5VDC to 48VDC
- 100% Burn In and Tested
- Short Circuit Protection
- Wide Operate Input Voltage Range: 90~264VAC
- MTBF>100,000 Hours
- IEC 62368-4 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 NO.62368-1-14, EN 62368-1:2014, and J 62368-1 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 operate input voltage range of 90~264VAC. This series meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits and has IEC 62368-4 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 NO.62368-1-14, EN 62368-1:2014, and J 62368-1 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	No Load Power Consumption	Total Regulation[3]	Max. Output Power	Efficiency
			Min.	Max.					
WMISPU15-102x	90~264VAC	5~5.99VDC	2.00A	2.4A	50mVp-p	0.075W	±5%	12W	80.3%
WMISPU15-103x		6.5~8VDC	1.50A	1.84A	65mVp-p		±5%	12W	83.26%
WMISPU15-104x		8~11VDC	1.22A	1.68A	80mVp-p		±5%	13.5W	83.93%
WMISPU15-105x		11~13VDC	1.15A	1.36A	100mVp-p		±5%	15W	84.5%
WMISPU15-106x		13~16VDC	0.94A	1.15A	100mVp-p		±5%	15W	84.5%
WMISPU15-107x		16~21VDC	0.72A	0.94A	130mVp-p		±5%	15W	84.5%
WMISPU15-108x		21~27VDC	0.55A	0.72A	180mVp-p		±5%	15W	84.5%
WMISPU15-109x		27~33VDC	0.45A	0.55A	250mVp-p		±3%	15W	85%
WMISPU15-110x		33~40VDC	0.37A	0.45A	280mVp-p		±3%	15W	86%
WMISPU15-111x		40~48VDC	0.32A	0.37A	360mVp-p		±3%	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						
Input Voltage Range		Operating Input Voltage Range	90		264	VAC
		Safety Approvals Input Voltage Range, Specification in Label	100		240	
Input Frequency			47		63	Hz
Input Current	Low Line	Io=Full Load, Vin=100VAC		0.4		A
	High Line	Io=Full Load, Vin=240VAC		0.16		
Inrush Current	Low Line	Io=Full Load, 25ºC, Cool Start, Vin=100VAC	40		45	A
	High Line	Io=Full Load, 25ºC, Cool Start, Vin=240VAC	80		90	
No Load Power Consumption		No Load, Vin=230VAC	See Table			
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Line Regulation		Io=Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation		Vin=230VAC, 10~90% Load Change at Condition	3		5	%
Output Power			See Table			
Output Current			See Table			
Ripple & Noise (peak-to-peak)		Full Load, Vin=90VAC	See Table			
Transient Response Time		Io=Full Load to Half Load, Vin=100VAC			4	ms
Start-Up Time		Io=Full Load, Vin=100~240VAC			3	S
Hold-Up Time		Io=Full Load, Vin=100VAC		10		mS
Temperature Coefficient		Full Load, Vin=100~240VAC			±0.04	%/ºC
PROTECTION						
Short Circuit Protection			Automatic Recovery			
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature[4]		Derate linearly from 100% Load at 40ºC to 50% load at 70ºC	-20		70	ºC
Storage Temperature		10~95%	-40		85	ºC
Operating Humidity		Non-Condensing	0		95	%
Storage Humidity			0		95	%
Vibration		10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Operating Altitude (Elevation)		All Conditions			2000	m
MTBF		Operating Temperature at 25ºC, calculated per MIL-HDBK-217F	100,000			hours
GENERAL SPECIFICATIONS						
Efficiency		Io=Full Load, Vin=230VAC	See Table			
Dielectric Withstanding Voltage		Primary to Secondary	4242			VDC
Safety Ground Leakage Current		Vin=240VAC Fi=60Hz			0.25	mA
Surge Voltage		Line-Neutral			1	kV
		Line-PE & Neutral-PE			2	
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			Optional Output Connectors Available			
Cooling			Free Air Convection			
Flammability			UL94V-1 Min.			
SAFETY						
Safety Approvals		IEC62368-1 Edition 2.0 UL 62368-1[3] CAN/CSA-C22 No. 62368-1-14 EN 62368-1:2014 J 62368-1				
EMC Emission		Compliance to EN55032 (CISPR32)	Class B			
Electrostatic Discharge		Air Discharge, IEC61000-4-2			8	kV
		Contact Discharge, IEC61000-4-2			4	

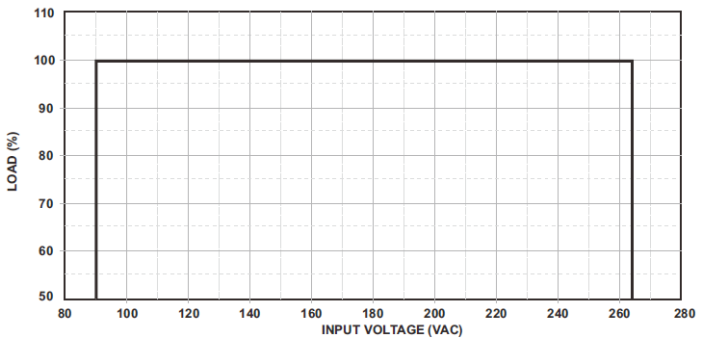
NOTES

(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) Factory setting, cannot be adjusted.
(3) This product is Listed to applicable standards and requirements by UL.
(4) Output can provide up to peak load when the power supply starts up. Continually staying in more than the rated load is not allowed.
(5) At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
(6) Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
(7) Load regulation is defined by changing ±40% of measured output load from 60% rated load.
(8) The ripple is measured from peak to peak with a bandwidth-limit of 10MHz (measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor.
(9) 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.
(10) Efficiency is measured at rated load and nominal line.

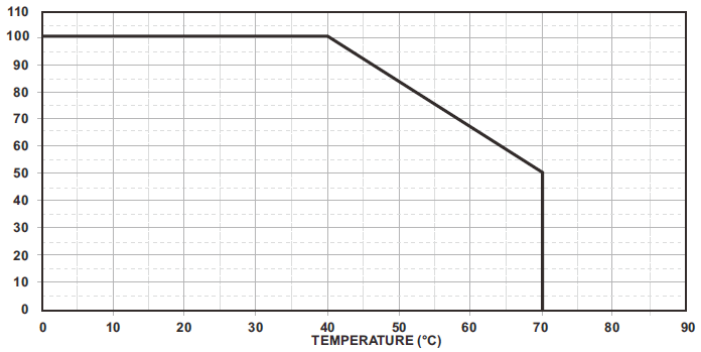
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES

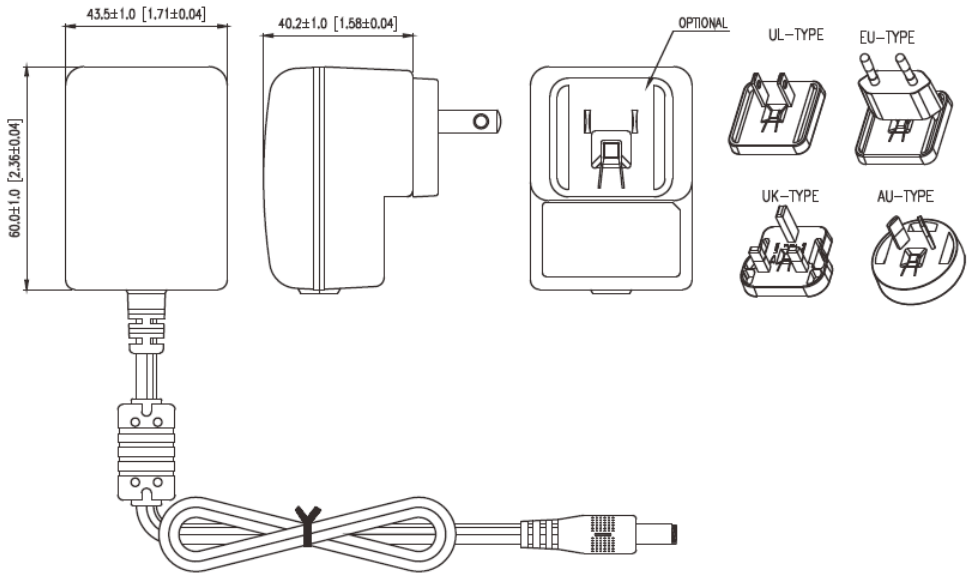
Input Voltage Derating Derating



Temperature Derating Curve



MECHANICAL DRAWINGS



Notes:
1. Please contact factory for selected output connectors and wire.
2. WMISPU15-102~107 are required to use AWG#18/4FT output cable.
3. WMISPU15-108~111 are required to use AWG#20/4FT output cable.
4. Regulation and efficiency will be changed by a modified output cable.
5. Option a output connectors are available, contact factory for details.

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.

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