Size:
2.36 x 1.71 x 1.58 inches
60.0 x 43.5 x 40.2 mm

Weight:
5.82oz (165g)

AC Plug Types:
- Unites States (“U” Suffix)
- Europe (“E” Suffix)
- Australia (“A” Suffix”)
- United Kingdom (“K” Suffix)

Applications:
- Ethernet Hubs
- Portable Devices
- Chargers
- Monitors
- Set-top Boxes
- AV Equipment

FEATURES

- Class II
- RoHS Compliant
- 12~ 15 Watts Output Power
- 85% High Efficiency
- Energy Star 2.0, Efficiency Level VI (11~48V Models)
- 90-264VAC Input Voltage Range
- 100% Burn-In Tested
- MTBF > 100,000 Hours
- Single Outputs Ranging from 5VDC to 48VDC
- -40°C to +70°C Operating Temperature Range
- Meets FCC Part-15 Class B & CISPR-22 Class B Emission Limits
- UL/cUL (UL 60950-1: 2nd ed.) & TUV/GS (EN 60950-1: 2nd ed.) Safety Approvals
- Interchangeable Plug Options: United States, Europe, Australia, & United Kingdom Types Available
- Optional Output Connectors Available

SAFETY APPROVALS

DESCRIPTION

The WMIAPU15 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 5VDC to 48VDC with a 90~264VAC input voltage range and a -40°C to +70°C operating temperature. This series meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits and has UL/cUL (UL60950-1:2nd Edition), TUV/GS (EN60950-1:2nd Edition), and CE safety approvals. All units are RoHS and Energy Star Level VI compliant. Plugs come in United States (“U” suffix), Europe (“E” suffix), Australia (“A” suffix), and United Kingdom (“K” suffix) 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	Total Regulation	Ripple & Noise	Output Power	Efficiency Level
WMIAPU15-102x	90 ~ 264VAC	5 ~ 5.99 VDC	2.40 ~ 2.00 A	5%	1%	12W	Level V
WMIAPU15-103x		6.5 ~ 8 VDC	1.85 ~ 1.50 A	5%	1%	12W	Level V
WMIAPU15-104x		8 ~ 11 VDC	1.68 ~ 1.22 A	5%	1%	13.5W	Level V
WMIAPU15-105x		11 ~ 13 VDC	1.36 ~ 1.15 A	5%	1%	15W	Level VI
WMIAPU15-106x		13 ~ 16 VDC	1.15 ~ 0.94 A	5%	1%	15W	Level VI
WMIAPU15-107x		16 ~ 21 VDC	0.94 ~ 0.72 A	5%	1%	15W	Level VI
WMIAPU15-108x		21 ~ 27 VDC	0.72 ~ 0.55 A	5%	1%	15W	Level VI
WMIAPU15-109x		27 ~ 33 VDC	0.55 ~ 0.45 A	3%	1%	15W	Level VI
WMIAPU15-110x		33 ~ 40 VDC	0.45 ~ 0.37 A	3%	1%	15W	Level VI
WMIAPU15-111x		40 ~ 48 VDC	0.37 ~ 0.32 A	3%	1%	15W	Level VI

NOTES

1. The “x” in the model number can be “U” for United States type plug; “E” for Europe type plug, “A” for Australia type plug, or “K” for United Kingdom type plug. Plugs are sold separately so please contact factory for ordering details.
2. The output voltage is specified as a range (ex: 33~40VDC); the customer must specify what they would like the output voltage set at.
3. Models WMIAPU15A-102~104 need to use AWG#18/4FT output cable in order to meet the total regulation specified.
   Models WMIAPU15A-105~109 need to use AWG#20/4FT output cable in order to meet the total regulation specified.
   Models WMIAPU15A-110~111 need to use AWG#22/4FT output cable in order to meet the total regulation specified.
   The technical specifications will change if a different output cable is used.
4. Optional output connectors are available for this series. Please call factory for ordering details.
5. This product is Listed to applicable standards and requirements by UL.

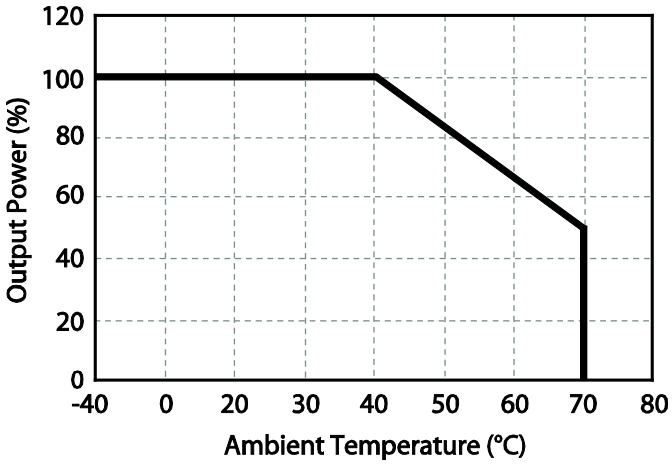
*Due to advances in technology, specifications subject to change without notice.

TECHNICAL SPECIFICATIONS: WMIAPU15 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	100VAC, full load			0.4		A
	240VAC, full load			0.4		
Inrush Current	115VAC, full load, 25°C, cold start		40		45	A
	230VAC, full load, 25°C, cold start		80		90	
No Load Power Consumption	230VAC, no load				0.3	W
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Line Regulation	LL to HL, full load		0.5		1	%
Load Regulation	230VAC		3		5	%
Output Power			See Table			
Output Current			See Table			
Ripple & Noise (peak to peak)	90VAC, full load				1	%
Hold-up Time	110VAC, full load		6			ms
Start-up Time	100VAC, full load				2	s
Transient Response Time	100VAC, Full load to half load				4	ms
Temperature Coefficient	0~50°C		-0.04		+0.04	%/°C
PROTECTION						
Over Voltage Protection			none			
Over Current Protection	output is protected against short circuit conditions		none			
GENERAL SPECIFICATIONS						
Efficiency	230VAC, full load		74.7		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		-40		+70	°C
Storage Temperature			-40		+85	°C
Operating Humidity			0		95	%
Storage Humidity			0		95	%
Cooling			Free air convection			
MTBF	MIL-HDBK-217F, 25°C		100,000			hours
PHYSICAL SPECIFICATIONS						
Weight			5.82oz (165g)			
Dimensions (L x W x H)			2.36 x 1.71 x 1.58 inches (60.0 x 43.5 x 40.2 mm)			
AC Plug	"U" suffix		United States			
	"K" suffix		United Kingdom			
	"E" suffix		Europe			
	"A" suffix		Australia			
Output Connector			Several options available			
SAFETY, EMC, & COMPLIANCE						
Safety Approvals			UL/cUL UL60950-1: 2nd edition[5]			
			TUV/GS EN60950-1: 2nd edition			
			CE			
EMI Requirements	220VAC	CISPR-22	B			Class
	120VAC	FCC Part-15	B			Class
Compliance			RoHS and UL 94V-1			
CEC & Energy Star			CEC and Energy Star 2.0, Efficiency Level VI			

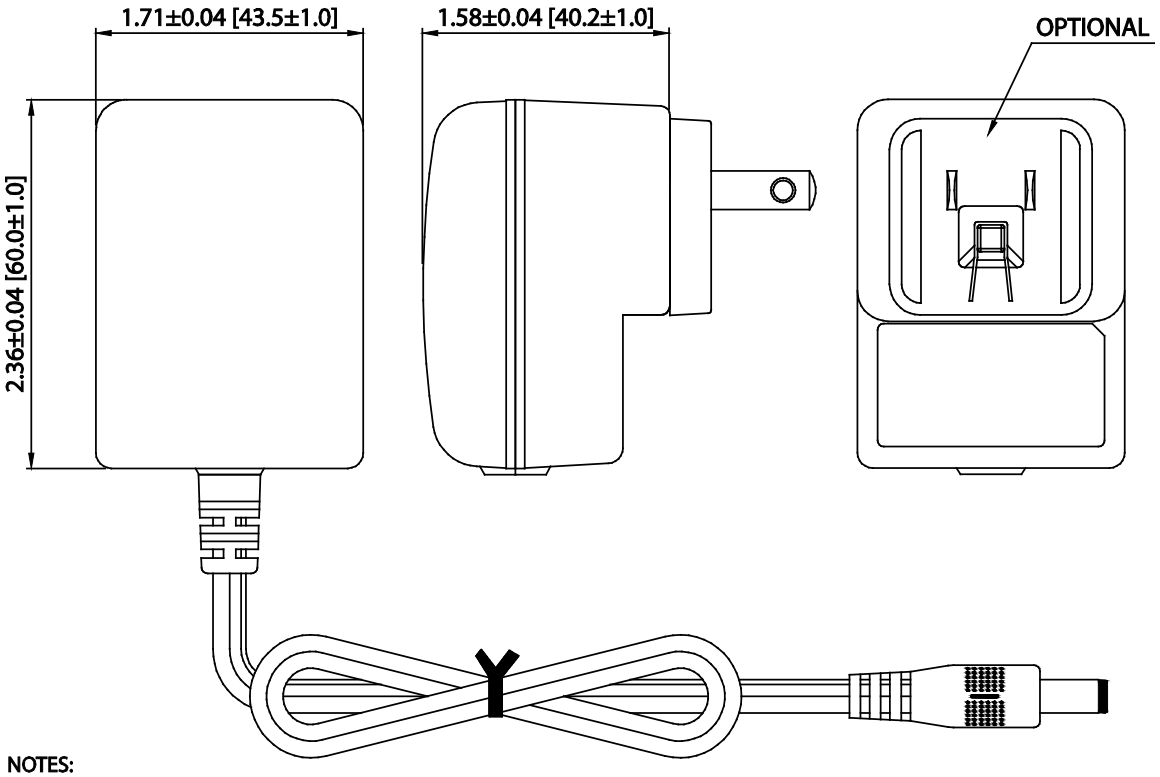
DERATING



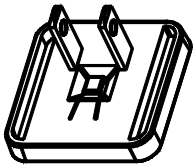
NOTES:

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

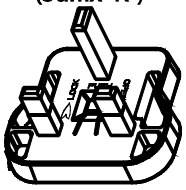
MECHANICAL DRAWING



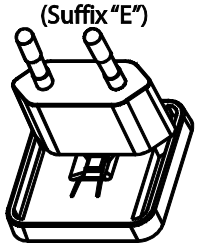
United States Type
(Suffix "U")



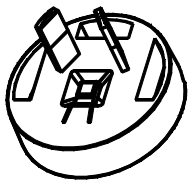
United Kingdom Type
(Suffix "K")



Europe Type
(Suffix "E")



AustraliaType
(Suffix "A")



NOTES:

1. Unit: inches [mm]
2. Tolerance: ±0.04 [±1.0]
3. Weight: 5.82oz (165g)
4. Models WMIAPU15-102~104 need to use AWG#18/4FT output cable in order to meet the total regulation specified.
   Models WMIAPU15-105~109 need to use AWG#20/4FT output cable in order to meet the total regulation specified.
   Models WMIAPU15-110~111 need to use AWG#22/4FT output cable in order to meet the total regulation specified.
   The technical specifications will change if a different output cable is used.
5. Plugs are sold separately. Please call factory for ordering details.
6. Optional output connectors available. Please call factory for ordering details.
7. 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:

Phone: ☎(603)778-2300
Toll Free: ☎(888)597-9255
Fax: ☎(603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833