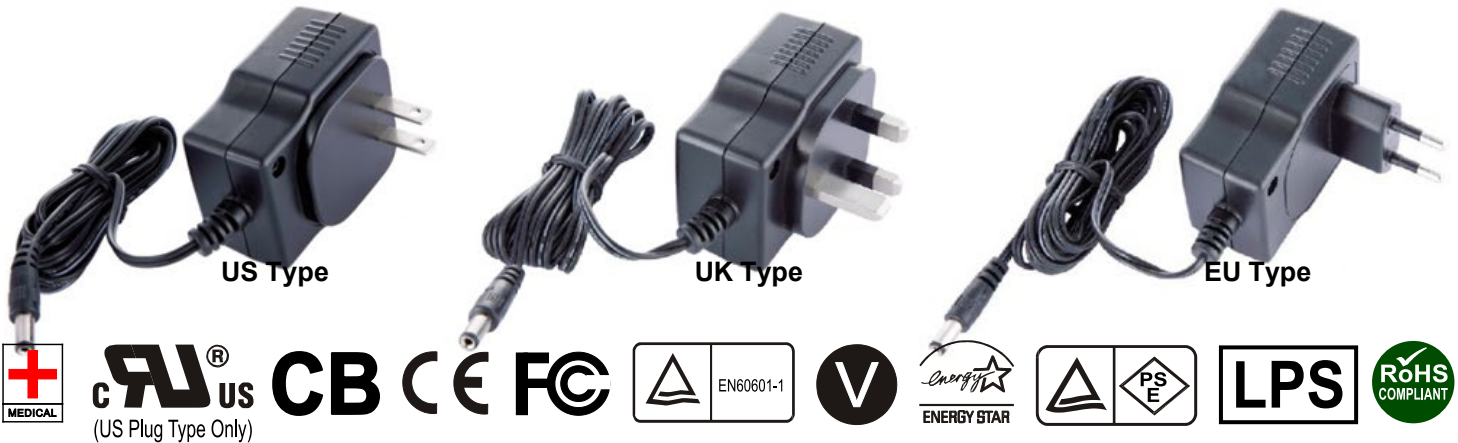


## Wall Industries, Inc.

### WMHPU12 SERIES

90~264VAC Input Voltage Range  
12 Watt, Single Outputs  
Class II Limited Power Source  
US, UK, and EU Plugs  
Medical AC/DC Wall Mount Power Supplies



#### FEATURES

- Class II Limited Power Source
- RoHS Compliant
- Energy Star 2.0, Efficiency Level V Compliant
- Single Output
- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- Optional Output Connectors
- Over Load and Over Temperature Protection
- US, UK, and EU Types Available
- US Plug Medical Approvals: UL/cUL 60601-1: 2<sup>nd</sup> Edition and TUV/T-mark EN60601-1:2<sup>nd</sup> Edition
- UK and EU Plug Medical Approvals: TUV/T-mark EN60601-1: 2<sup>nd</sup> Edition
- Meets FCC Part-18 Class B and CISPR-11 EN55011 Class B Emission Limits

#### DESCRIPTION

The WMHPU12 series of Class II medical AC/DC wall mount power supplies provides up to 12 Watts of continuous output power. This series consists of single output models from 5VDC to 27VDC with a 90~264VAC input voltage range. These supplies also have over load and over temperature protection. This series has UL/cUL 60601-1: 2<sup>nd</sup> Edition (US plug type only) and TUV/T-mark EN60601-1: 2<sup>nd</sup> Edition (US, UK, and EU types) medical approvals. All supplies are RoHS and Energy Star 2.0, Efficiency Level V compliant. These supplies also meet new CE requirements and are well suited for use in health care applications. The WMHPU12 series has three types of plugs available: US (A Type), UK (B Type), and EU (C Type). Optional output connectors are also available. Please call factory for ordering details.

SPECIFICATIONS: WMHPU12 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	Nom	Max	Unit
<b>INPUT SPECIFICATIONS</b>						
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		0.25	0.35	A
	High Line	Io = Full Load, Vin = 230VAC		0.17	0.22	A
Inrush Current	Low Line	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		14	25	A
	High Line	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		28	50	A
<b>OUTPUT SPECIFICATIONS</b>						
Output Voltage			See Table			
Load Regulation	Vin = 230VAC				5	%
Line Regulation	Io = Full Load				1	%
Output Power	Vin = 90 to 264VAC		0		12	W
Output Current Range			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
Hold-Up Time	Io = Full Load, Vin = 110VAC		10			ms
Start-Up Time	Io = Full Load, Vin = 100VAC		0.3	1	2	s
Temperature Coefficient			-0.04		+0.04	%/°C
<b>PROTECTION</b>						
Over Current Protection			110		150	%
Over Temperature Protection (See Note 2)	Verified by design/characteristics of integrated controller		-25		130	°C
<b>GENERAL SPECIFICATIONS</b>						
Efficiency	Io = Full Load, Vin = 230VAC		77.7			%
Dielectric Withstanding Voltage	Primary to Secondary		5656			VDC
<b>ENVIRONMENTAL SPECIFICATIONS</b>						
Operating Temperature	Derates 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		75	%
MTBF	Operating Temp. at 25°C, calculated per MIL-HDBK-217F		100,000 hours			
<b>PHYSICAL SPECIFICATIONS</b>						
Weight	US Plug (A Type)		4.6oz (130g)			
	UK Plug (B Type)		5.3oz (150g)			
	EU Plug (C Type)		4.9oz (140g)			
Dimensions (L x W x H)	US Plug (A Type)		2.52 x 2.17 x 2.10 inches (64.0 x 55.0 x 53.3 mm)			
	UK Plug (B Type)		2.52 x 2.17 x 2.37 inches (64.0 x 55.0 x 60.2 mm)			
	EU Plug (C Type)		2.52 x 2.17 x 2.70 inches (64.0 x 55.0 x 68.6 mm)			
<b>SAFETY &amp; EMI</b>						
Safety Approvals	US Plug (A Type)		UL/cUL 60601-1: 2 <sup>nd</sup> Edition <sup>(5)</sup>			
	UK & EU Plugs (B & C Types)		TUV/T-mark EN60601-1: 2 <sup>nd</sup> Edition TUV/T-mark EN60601-1: 2 <sup>nd</sup> Edition			
EMI Requirements for CISPR-11	Vin = 220VAC		B			Class
EMI Requirements for FCC PART-18	Vin = 110VAC		B			Class

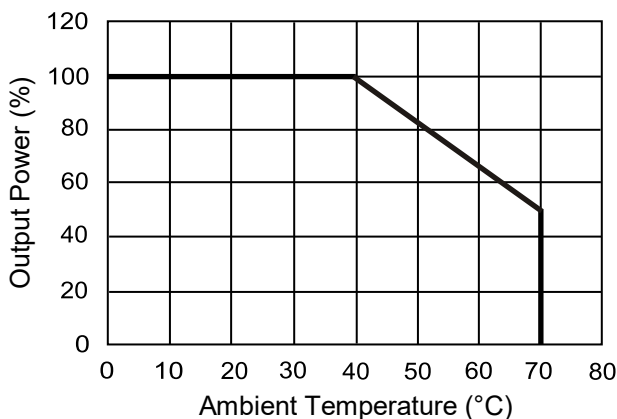
**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation <sup>(3)</sup>	Output Power	Plug Type
WMHPU12A-102	90 ~ 264 VAC	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W	US
WMHPU12A-103	90 ~ 264 VAC	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W	
*WMHPU12A-104	90 ~ 264 VAC	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W	
*WMHPU12A-105	90 ~ 264 VAC	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W	
*WMHPU12A-106	90 ~ 264 VAC	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W	
*WMHPU12A-107	90 ~ 264 VAC	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W	
*WMHPU12A-108	90 ~ 264 VAC	21 ~ 27 VDC	0.57 ~ 0.45 A	3%	12W	
WMHPU12B-102	90 ~ 264 VAC	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W	
WMHPU12B-103	90 ~ 264 VAC	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W	
*WMHPU12B-104	90 ~ 264 VAC	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W	
*WMHPU12B-105	90 ~ 264 VAC	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W	
*WMHPU12B-106	90 ~ 264 VAC	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W	
*WMHPU12B-107	90 ~ 264 VAC	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W	
*WMHPU12B-108	90 ~ 264 VAC	21 ~ 27 VDC	0.57 ~ 0.45 A	3%	12W	
WMHPU12C-102	90 ~ 264 VAC	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W	EU
WMHPU12C-103	90 ~ 264 VAC	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W	
*WMHPU12C-104	90 ~ 264 VAC	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W	
*WMHPU12C-105	90 ~ 264 VAC	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W	
*WMHPU12C-106	90 ~ 264 VAC	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W	
*WMHPU12C-107	90 ~ 264 VAC	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W	
*WMHPU12C-108	90 ~ 264 VAC	21 ~ 27 VDC	0.57 ~ 0.45 A	3%	12W	

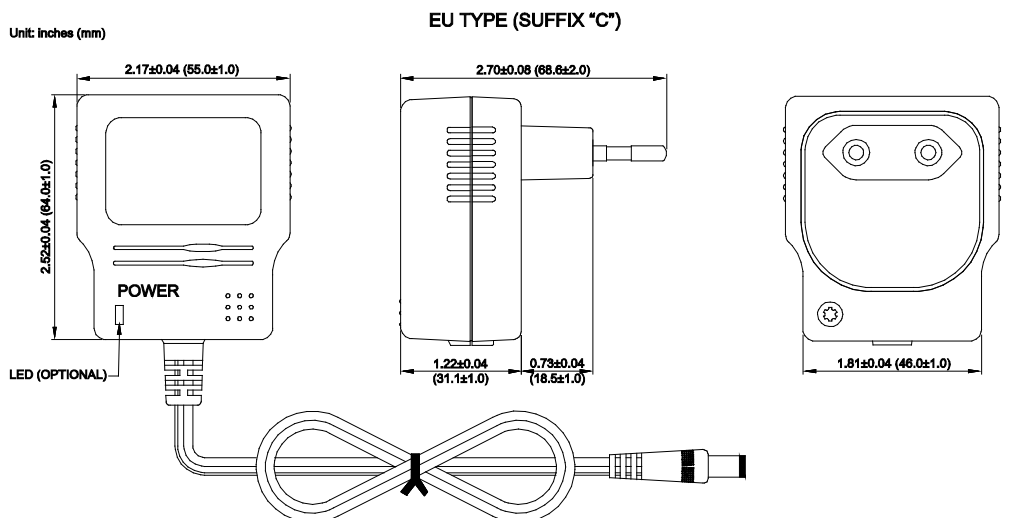
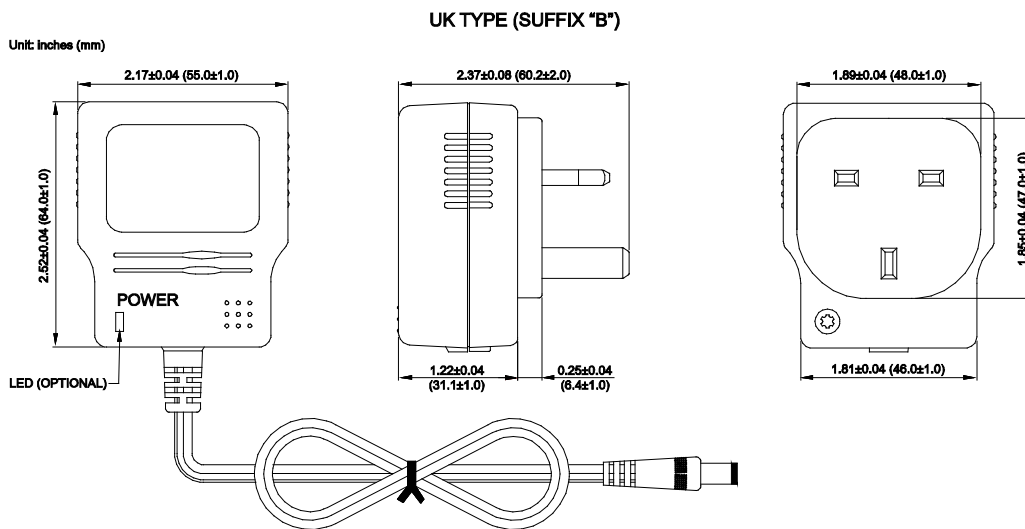
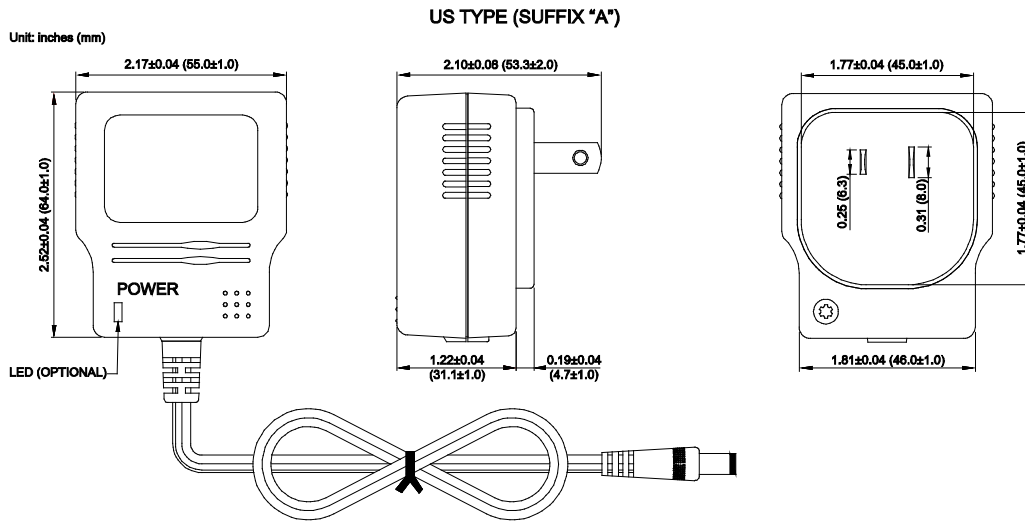
**NOTES**

- Models with a "\*" next to the model number are approved by CEC Level V.
- Over Temperature Protection: Thermal shutdown by junction temperature controller; the adapter will automatically recover when the fault condition is removed.
- Models WMHPU12-102~104 needs to use AWG#18/6FT output cable in order to meet the total regulation specified.  
Models WMHPU12-105~108 needs to use AWG#20/6FT output cable in order to meet the total regulation specified.  
The regulation and efficiency will change if a different output cable is used.
- Optional output connectors are available. Please call factory for ordering details.
- This product is Listed to applicable standards and requirements by UL.  
*\*Due to advances in technology, specifications subject to change without notice.*

**DERATING CURVE**



**MECHANICAL DRAWINGS**





Wall Industries, Inc.

Rev. B

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US, UK, and EU Plugs  
12 Watt, Single Outputs  
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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: 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:

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