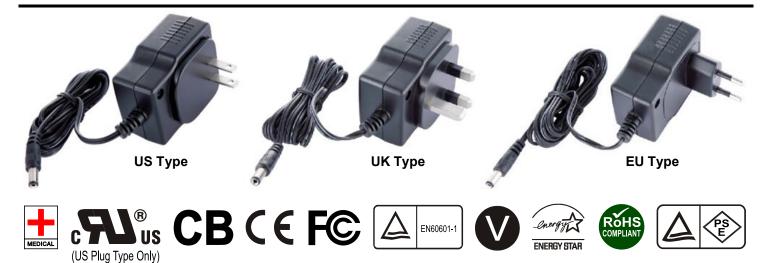


# Wall Industries, Inc.

# WMMPU12 SERIES

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



#### **FEATURES**

- Class II
- RoHS Compliant
- Energy Star 2.0, Efficiency Level V Compliant
- Single Outputs
- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- Optional Output Connectors

- Over Voltage, Over Load, and Over Temperature Protection
- US, UK, and EU Types Available
- US Plug Medical Approvals: UL/cUL 60601-1: 3rd Edition
- UK and EU Plug Medical Approvals: TUV/T-mark

EN60601-1: 3rd Edition

#### DESCRIPTION

The WMMPU12 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 voltage, over load, and over temperature protection. This series has UL/cUL 60601-1: 3rd Edition (US plug type only) and TUV/T-mark EN60601-1: 3rd Edition (UK and EU plug types only) medical approvals. All units are RoHS and Energy Star 2.0, Efficiency Level V compliant. These units also meet new CE requirements and are well suited for use in blood pressure measurement equipment, frequency therapy devices, and dental curing light applications. The WMMPU12 series has three types of plugs available: US (A Type), UK (B Type), and EU (C Type). Optional output connectors are also available for this series. Please call factory for ordering details.



# **TECHNICAL SPECIFICATIONS: WMMPU12 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.

We reserve the right to change specifications based on technological advances.										
SPECIFICATION	N	TEST CONDITION	ONS	Min	Nom	Max	Unit			
INPUT SPECIFIC	CATIONS									
Operating Voltage Range		Operating Input Voltage Range				264	VAC			
Operating voltage K	ange	Safety Approvals Input Voltage Range				240	VAC			
Input Frequency						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 =			14	25	A			
	High Line	Io = Full Load, 25°C, Cool Start, Vin = 230VAC			28	50	A			
No Load Power Cons		No Load, Vin = 240VAC				0.3	W			
OUTPUT SPECII	FICATIONS			1						
Output Voltage					See 7					
Load Regulation		Vin = 230VAC			3	5	%			
Line Regulation		Io = Full Load			0.5	1	%			
Output Power		Vin = 90 to 264VAC		0		12	W			
Output Current Rang				See Table						
Ripple & Noise (peak to peak)		Full Load, Vin = 90VAC			0.5	1	%			
Transient Response	Гіте	Io = Full Load to Half Load, Vin = 100	VAC			4	ms			
Hold-Up Time		Io = Full Load, Vin = 110VAC		0.3	16		ms			
Start-Up Time		Io = Full Load, Vin = 100VAC			1	2	S			
Temperature Coeffic	ient			-0.04		+0.04	%/°C			
PROTECTION		I		112	I	122	0./			
Over Voltage Protect						132	%			
Over Current Protect						150	%			
	rotection (See Note 1)	Verified by design/characteristics of int	-25		130	°C				
GENERAL SPECI	FICATIONS			73.3		0.7	0.4			
Efficiency	· • • • • • • • • • • • • • • • • • • •	Io = Full Load, Vin = 230VAC			77.7	85	% HDG			
Dielectric Withstand		Primary to Secondary				0.1	VDC			
Safety Ground Leaka		Io = Full Load, Vin = 240VAC			0.1	mA				
	TAL SPECIFICATION		C + 500/ 1 1 + 700C	0	50	70	0.0			
Operating Temperature		Derate linearly from 100% Load at 50°C to 50% load at 70°C			50	70 85	°C			
Storage Temperature							%			
Operating Humidity						95 75	%			
Storage Humidity		Operating Terms at 25°C calculated for MIL HDDV 217E								
MTBF Operating Temp. at 25°C, calculated per MIL-HDBK-217F 100,000 hours  PHYSICAL SPECIFICATIONS										
PHYSICAL SPEC	IFICATIONS	US Plug (A Type)		4.6oz (130g)						
Weight		UK Plug (B Type)		5.3oz (150g)						
		EU Plug (C Type)		4.9oz (140g)						
		G \ 71 /		2.52 x 2.17 x 2.10 inches						
Dimensions (L x W x H)		US Plug (A Type)		(64.0 x 55.0 x 53.3 mm)						
				2.52 x 2.17 x 2.37 inches						
		UK Plug (B Type)		(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)						
SAFETY & EMI										
Safety Approvals		US Plug (A Type)		UL/cUL 60601-1:3rd Edition <sup>(4)</sup>						
		UK & EU Plugs (B & C Types)			TUV/T-mark EN60601-1:3rd Edition					
		LIC DL (A.T. ) O. L.	Vin = 120VAC, 60Hz	В	1		Class			
EMI Requirements for		US Plug (A Type) Only								
EMI Requirements for EMI Requirements for EMI Requirements for	or CRF 47, Part-18	US Plug (A Type) Only US Plug (A Type) Only UK & EU Plugs (B & C Types) Only	Vin = 120 VAC, 60Hz Vin = 230 VAC, 50Hz	B B			Class Class			

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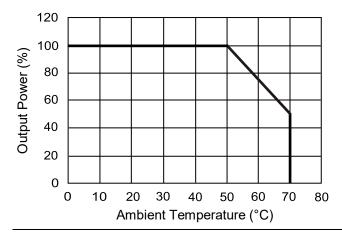


MODEL SELECTION TABLE										
Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation (2)	Output Power	Plug Type				
WMMPU12A-102	90 ~ 264 VAC	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W					
WMMPU12A-103	90 ~ 264 VAC	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W					
WMMPU12A-104	90 ~ 264 VAC	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W					
WMMPU12A-105	90 ~ 264 VAC	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W	US				
WMMPU12A-106	90 ~ 264 VAC	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W					
WMMPU12A-107	90 ~ 264 VAC	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W					
WMMPU12A-108	90 ~ 264 VAC	21 ~ 27 VDC	0.57 ~ 0.45 A	3%	12W					
WMMPU12B-102	90 ~ 264 VAC	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W					
WMMPU12B-103	90 ~ 264 VAC	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W					
WMMPU12B-104	90 ~ 264 VAC	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W					
WMMPU12B-105	90 ~ 264 VAC	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W	UK				
WMMPU12B-106	90 ~ 264 VAC	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W					
WMMPU12B-107	90 ~ 264 VAC	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W					
WMMPU12B-108	90 ~ 264 VAC	21 ~ 27 VDC	0.57 ~ 0.45 A	3%	12W					
WMMPU12C-102	90 ~ 264 VAC	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W					
WMMPU12C-103	90 ~ 264 VAC	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W					
WMMPU12C-104	90 ~ 264 VAC	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W					
WMMPU12C-105	90 ~ 264 VAC	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W	EU				
WMMPU12C-106	90 ~ 264 VAC	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W					
WMMPU12C-107	90 ~ 264 VAC	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W					
WMMPU12C-108	90 ~ 264 VAC	21 ~ 27 VDC	0.57 ~ 0.45 A	3%	12W					

#### **NOTES**

- 1. Over Temperature Protection: Thermal shutdown by junction temperature controller; the adapter will automatically recover when the fault condition is removed.
- 2. Models WMMPU12-102~103 needs to use AWG#18/6FT output cable in order to meet the total regulation specified. Models WMMPU12-104~108 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.
- 3. Optional output connectors are available. Please call factory for ordering details.
- 4. This product is Listed to applicable standards and requirements by UL.
- \*Due to advances in technology, specifications subject to change without notice.

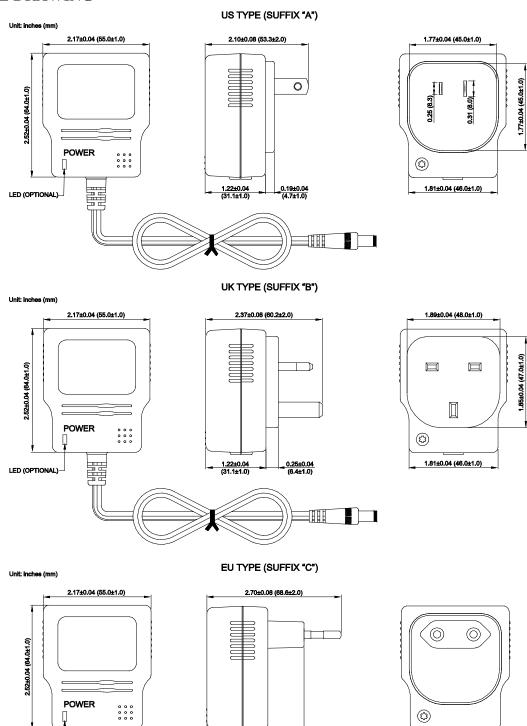
# **DERATING CURVE**



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# **MECHANICAL DRAWING**



1.81±0.04 (46.0±1.0)

LED (OPTIONAL)-



WMMPU12 Series
Medical Approvals
US, UK, and EU Plugs
12 Watt, Single Outputs
Class II AC/DC Wall Mount Power Supplies

### **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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