

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. SPECIFICATION **TEST CONDITIONS** Min Unit Nom Max INPUT SPECIFICATIONS 90 Operating Input Voltage Range 264 Operating Voltage Range VAC Safety Approvals Input Voltage Range 100 240 47 63 Input Frequency Hz Io = Full Load, Vin = 115VAC 0.25 Low Line 0.35 Α Input Current High Line Io = Full Load, Vin = 230VAC 0.17 0.22 A Io = Full Load, 25°C, Cool Start, Vin = 115VAC Low Line 14 25 Α Inrush Current High Line Io = Full Load, 25°C, Cool Start, Vin = 230VAC 28 50 A No Load Power Consumption No Load, Vin = 240VAC 0.3 W **OUTPUT SPECIFICATIONS** Output Voltage See Table Load Regulation Vin = 230VAC% Line Regulation Io = Full Load 0.5 % Vin = 90 to 264VAC0 W Output Power 12 Output Current Range See Table Ripple & Noise (peak to peak) Full Load. Vin = 90VAC 0.5 % Io = Full Load to Half Load, Vin = 100VAC Transient Response Time 4 ms Hold-Up Time Io = Full Load, Vin = 110VAC 12 16 ms Io = Full Load, Vin = 100VAC Start-Up Time 0.3 2 1 S Temperature Coefficient -0.04+0.04%/°C **PROTECTION** Over Voltage Protection 112 132 % Over Current Protection 110 150 % °C Over Temperature Protection (See Note 1) Verified by design/characteristics of integrated controller -25 130 GENERAL SPECIFICATIONS Efficiency Io = Full Load, Vin = 230VAC 73.3 77.7 85 % 5656 Dielectric Withstanding Voltage Primary to Secondary VDC Safety Ground Leakage Current Io = Full Load, Vin = 240VAC 0.1 mA ENVIRONMENTAL SPECIFICATIONS Derate linearly from 100% Load at 50°C to 50% load at 70°C °C Operating Temperature 50 70 Storage Temperature -40 °C. 85 Operating Humidity 0 95 % 75 0 Storage Humidity % Operating Temp. at 25°C, calculated per MIL-HDBK-217F 100.000 hours **MTBF** PHYSICAL SPECIFICATIONS US Plug (A Type) 4.6oz (130g) Weight UK Plug (B Type) 5.3oz (150g) EU Plug (C Type) 4.9oz (140g) 2.52 x 2.17 x 2.10 inches US Plug (A Type) (64.0 x 55.0 x 53.3 mm) 2.52 x 2.17 x 2.37 inches Dimensions (L x W x H) UK Plug (B Type) (64.0 x 55.0 x 60.2 mm) 2.52 x 2.17 x 2.70 inches EU Plug (C Type) (64.0 x 55.0 x 68.6 mm) **SAFETY & EMI** UL/cUL 60601-1:3rd Edition US Plug (A Type) Safety Approvals UK & EU Plugs (B & C Types) TUV/T-mark EN60601-1:3rd Edition EMI Requirements for CISPR-11 US Plug (A Type) Only Vin = 120VAC, 60HzВ Class EMI Requirements for CRF 47, Part-18 US Plug (A Type) Only Vin = 120VAC, 60HzВ Class

Vin = 230VAC, 50Hz

В

UK & EU Plugs (B & C Types) Only

EMI Requirements for EN55022

Class

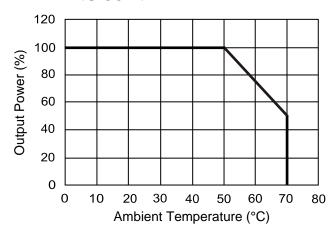


MODEL SELECTION TABLE						
Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation (2)	Output Power	Plug Type
WMMPU12A-102	90 ~ 264 VAC	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W	
WMMPU12A-103	90 ~ 264 VAC	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W	
WMMPU12A-104	90 ~ 264 VAC	8 ~ 11 VDC	1.50 ~ 1.09 A	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

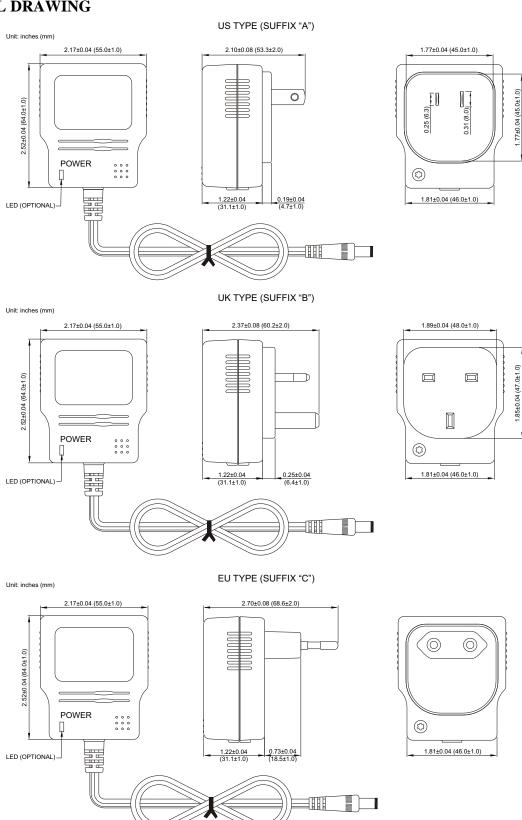
- 1. Over Temperature Protection: Thermal shutdown by junction temperature controller; the adapter will automatically recover when the fault condition is removed.
- 2. Models WMMPU12-102~103 needs to use AWG#18/6FT output cable in order to meet the total regulation specified. Models WMMPU12-104~108 needs 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.

DERATING CURVE





MECHANICAL DRAWING





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 ISO9001-2008 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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