



Size:
2.20 x 1.73 x 1.08 inches
56.0 x 44.0 x 27.5 mm

Weight:
3.17oz (90g)



FEATURES

- Class II
- RoHS Compliant
- 10 Watts Output Power
- 85% High Efficiency
- Energy Star 2.0, Efficiency Level VI
- 90-264VAC Input Voltage Range
- 100% Burn-In Tested
- 2 Prong Plug-in Mains Connector
- Single Outputs Ranging from 5VDC to 48VDC
- -40°C to +70°C Operating Temperature Range
- Meets FCC Class B Emission Limits
- UL/cUL (UL 60950-1: 2nd ed.) & TUV/GS (EN 60950-1: 2nd ed.) Safety Approvals
- Optional Output Connectors Available

DESCRIPTION

The WMAPU10 series of Class II AC/DC wall mount power supplies provides 10 Watts of continuous output power in a 2.20 x 1.73 x 1.08 inch 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. All units are UL 94V-1, RoHS, and CEC & Energy Star Level VI compliant. This series also meets new CE requirements and FCC class B emission limits. All models have UL/cUL (UL 60950-1: 2nd edition) and TUV/GS (EN 60950-1: 2nd edition) safety approvals. All units have been 100% burn-in tested.

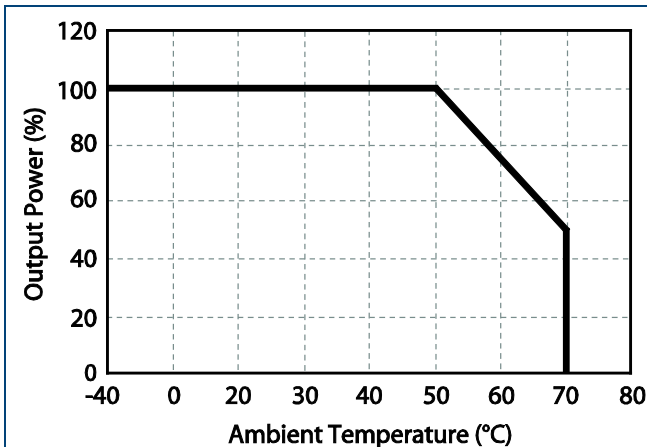
MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage ⁽¹⁾	Output Current	Total Regulation ⁽²⁾	Ripple & Noise	Output Power	No-Load Power Consumption
WMAPU10-102	90 ~ 264VAC	5 ~ 5.99 VDC	1.60 ~ 1.33 A	5%	0.5%	8W	0.2W
WMAPU10-103		6.5 ~ 8 VDC	1.33 ~ 1.00 A	5%	0.5%	8W	0.2W
WMAPU10-104		8 ~ 11 VDC	1.25 ~ 0.90 A	5%	0.5%	10W	0.3W
WMAPU10-105		11 ~ 13 VDC	0.90 ~ 0.76 A	5%	0.5%	10W	0.3W
WMAPU10-106		13 ~ 16 VDC	0.76 ~ 0.62A	5%	0.5%	10W	0.3W
WMAPU10-107		16 ~ 21 VDC	0.62 ~ 0.47 A	3%	0.5%	10W	0.3W
WMAPU10-108		21 ~ 27 VDC	0.47 ~ 0.37 A	3%	0.5%	10W	0.3W
WMAPU10-109		27 ~ 33 VDC	0.37 ~ 0.30 A	3%	0.5%	10W	0.3W
WMAPU10-110		33 ~ 40 VDC	0.30 ~ 0.25 A	3%	0.5%	10W	0.3W
WMAPU10-111		40 ~ 48 VDC	0.25 ~ 0.20 A	3%	0.5%	10W	0.3W

NOTES

1. The output voltage is specified as a range (ex: 33~40VDC); the customer must specify what they would like the output voltage set at.
2. Models WMAPU10A-102~105 need to use AWG#20/4FT output cable in order to meet the total regulation specified. Models WMAPU10A-106~111 need to use AWG#24/4FT 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 for this series. Please call factory for ordering details.

DERATING



NOTES:

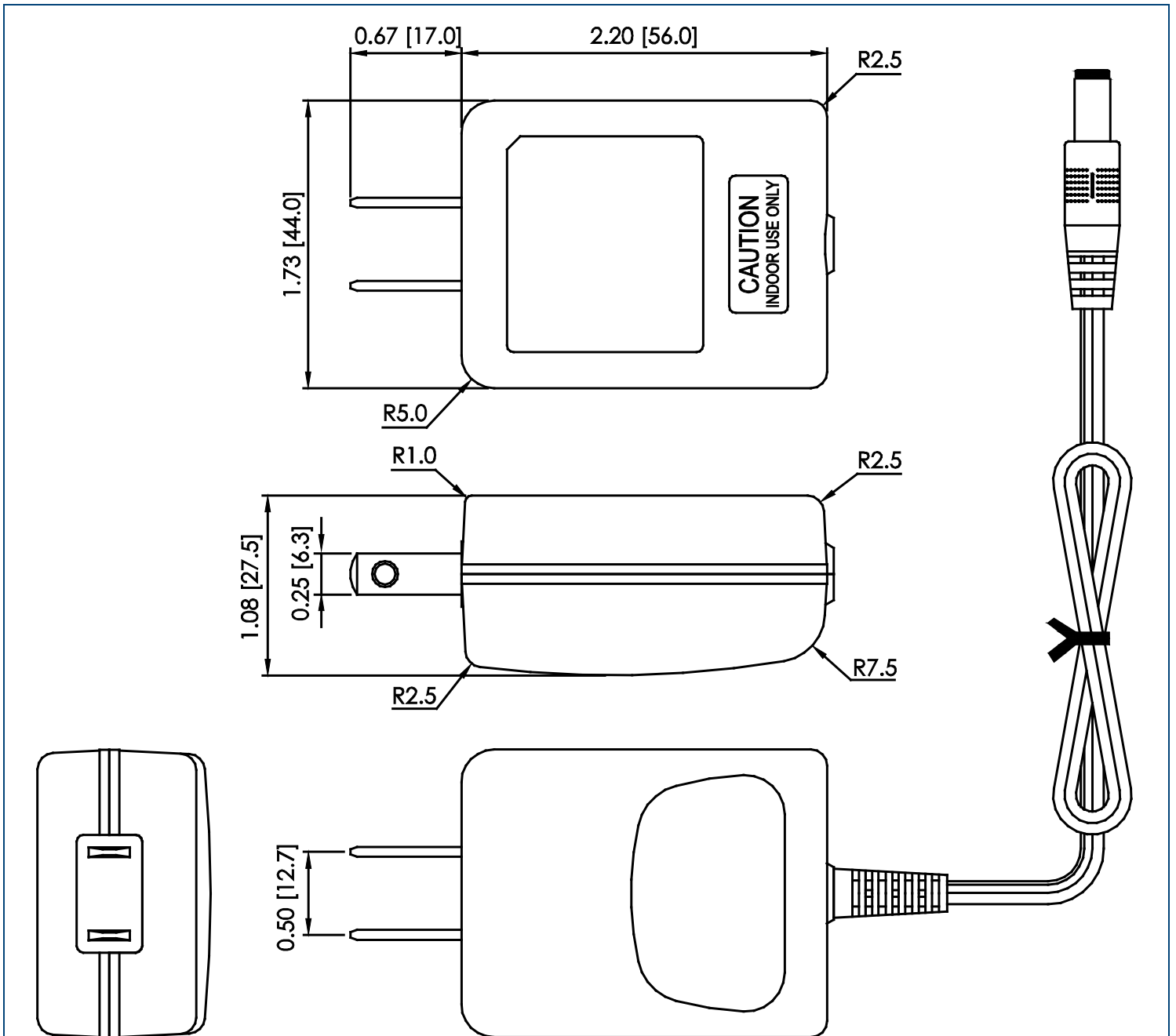
1. Operating Temperature: -40°C to +70°C
2. Derating linearly from 100% load at 50°C to 50% load at 70°C

TECHNICAL SPECIFICATIONS: WMAPU10 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		0.3		A
	240VAC, full load		0.3		
Inrush Current	115VAC, full load, 25°C, cold start	35		40	A
	230VAC, full load, 25°C, cold start	70		80	
No Load Power Consumption	230VAC, no load	See Table			
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			2	%
Hold-up Time	110VAC, full load		10		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		none, but output is protected against short circuit conditions			
GENERAL SPECIFICATIONS					
Efficiency	230VAC, full load	71	76	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		3.17oz (90g)			
Dimensions (L x W x H)		2.20 x 1.73 x 1.08 inches (56.0 x 44.0 x 27.5 mm)			
AC Plug		US Type			
Output Connector		Several options available			
SAFETY, EMC, & COMPLIANCE					
Safety Approvals		UL/cUL (UL60950-1: 2 nd edition), TUV/GS (EN60950-1: 2 nd edition), CE			
EMI Requirements for FCC	110VAC	B			Class
Compliance		RoHS and UL 94V-1			
CEC & Energy Star		CEC and Energy Star 2.0, Efficiency Level VI			

MECHANICAL DRAWING



NOTES

1. Unit: inches [mm]
2. Tolerance: ± 0.04 [± 1.0]
3. Weight: 3.17oz (90g)
4. Models WMAPU10A-102~105 need to use AWG#20/4FT output cable in order to meet the total regulation specified. Models WMAPU10A-106~111 need to use AWG#24/4FT output cable in order to meet the total regulation specified. The regulation and efficiency will change if a different output cable is used.
5. Optional output connectors available. Please call factory for ordering details.
6. 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 ISO9001-2008 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.

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