



Several other Pantone® colors available

**Size:**

3.82 x 1.77 x 1.48 inches  
97.0 x 45.0 x 37.6 mm

**Weight:**

8.75oz (248g)



## FEATURES

- Class II
- RoHS Compliant
- Up to 48 Watts Output Power
- Very Low Standby Power
- MTBF: 50,000 Hours
- CEC & Energy Star Level V Compliant
- 5V~24VDC Single Output Models Available
- 90-264VAC Input Voltage Range
- -20°C to +40° Operating Temperature Range
- Over Voltage, Over Current, & Short Circuit Protection
- Meets UL60950 and FCC Part 15 Standards
- US, EU, UK, AUS, & JP Interchangeable Plugs Available

## DESCRIPTION

The WMICP48 series of Class II wall mount AC/DC power supplies delivers up to 48 Watts of output power in a 3.82" x 1.77" x 1.48" package. Single output models are available from 5VDC to 24VDC with an input voltage range of 90-264VAC. These supplies are protected against over voltage, over current, and short circuit conditions. The WMICP48 series is RoHS and CEC/Energy Star Level V compliant. These supplies also meet UL60950 and FCC Part 15 regulatory standards. US, EU, UK, AUS, and JP interchangeable plugs are available for this series.

## MODEL SELECTION TABLE

Model Number <sup>(1)</sup>	Input Voltage Range	Output Voltage <sup>(2)</sup>	Output Current <sup>(2)</sup>	Ripple & Noise <sup>(3)</sup>	Output Power	Plug Type <sup>(1)</sup>
WMICP2505U	90 ~ 264 VAC	5 VDC	5A	50mVp-p	25W	United States
WMICP4509U		9 VDC	5A	90mVp-p	45W	
WMICP3612U		12 VDC	3A	120mVp-p	36W	
WMICP4812U		12 VDC	4A	120mVp-p	48W	
WMICP3624U		24 VDC	1.5A	240mVp-p	36W	
WMICP4824U		24 VDC	2A	240mVp-p	48W	
WMICP2505K	90 ~ 264 VAC	5 VDC	5A	50mVp-p	25W	United Kingdom
WMICP4509K		9 VDC	5A	90mVp-p	45W	
WMICP3612K		12 VDC	3A	120mVp-p	36W	
WMICP4812K		12 VDC	4A	120mVp-p	48W	
WMICP3624K		24 VDC	1.5A	240mVp-p	36W	
WMICP4824K		24 VDC	2A	240mVp-p	48W	
WMICP2505E	90 ~ 264 VAC	5 VDC	5A	50mVp-p	25W	Europe
WMICP4509E		9 VDC	5A	90mVp-p	45W	
WMICP3612E		12 VDC	3A	120mVp-p	36W	
WMICP4812E		12 VDC	4A	120mVp-p	48W	
WMICP3624E		24 VDC	1.5A	240mVp-p	36W	
WMICP4824E		24 VDC	2A	240mVp-p	48W	
WMICP2505A	90 ~ 264 VAC	5 VDC	5A	50mVp-p	25W	Australia
WMICP4509A		9 VDC	5A	90mVp-p	45W	
WMICP3612A		12 VDC	3A	120mVp-p	36W	
WMICP4812A		12 VDC	4A	120mVp-p	48W	
WMICP3624A		24 VDC	1.5A	240mVp-p	36W	
WMICP4824A		24 VDC	2A	240mVp-p	48W	
WMICP2505J	90 ~ 264 VAC	5 VDC	5A	50mVp-p	25W	Japan
WMICP4509J		9 VDC	5A	90mVp-p	45W	
WMICP3612J		12 VDC	3A	120mVp-p	36W	
WMICP4812J		12 VDC	4A	120mVp-p	48W	
WMICP3624J		24 VDC	1.5A	240mVp-p	36W	
WMICP4824J		24 VDC	2A	240mVp-p	48W	

## NOTES

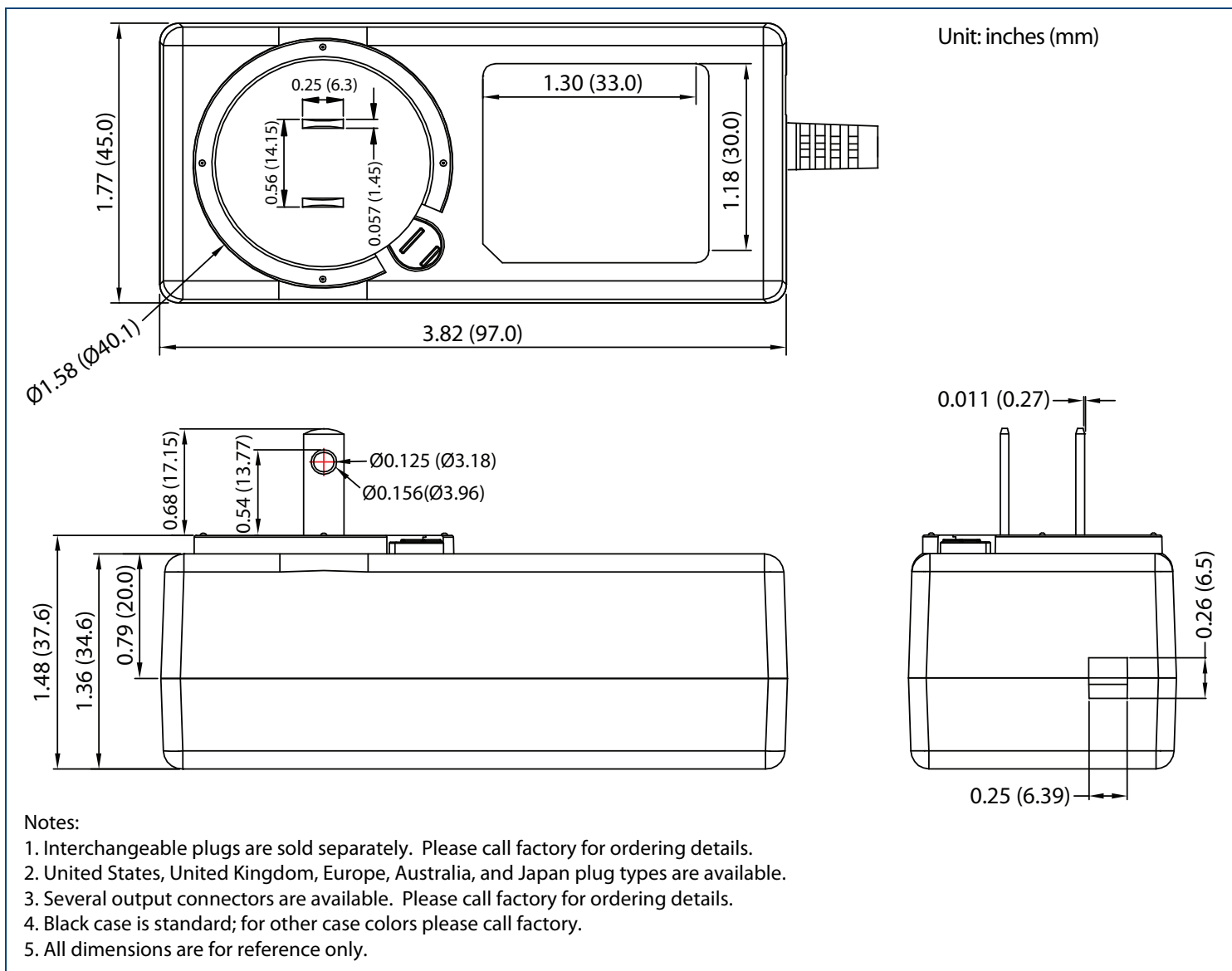
1. The suffix in the model number represents the type of plug: "U" for United States type, "K" for United Kingdom type, "E" for Europe type, "A" for Australia type, and "J" for Japan type.
2. The output voltage and output current listed in the table above are for standard output models. Output voltages are available from 5VDC to 24VDC and output current is available from 100mA to 5000mA. Please call factory for ordering details.
3. Ripple and noise is measured at 20MHz limited bandwidth with 0.1µF ceramic and 10µF electrolytic capacitors across the output
4. Several output connector options are available. Please call factory for ordering details.
5. Interchangeable plugs are sold separately. Please call factory for ordering details.

**TECHNICAL SPECIFICATIONS: WMICP48 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	Rated input voltage range	100	115/230	240	VAC
	Full Range	90	115/230	264	
Input Frequency		47	50/60	63	Hz
Input Current	At 90VAC/60Hz and full load			1.3	A
Inrush Current	At 100VAC and full load			30	A
	At 240VAC and full load			75	
Stand-by Power	At 230VAC/50Hz and no load			0.5	W
OUTPUT SPECIFICATIONS					
Output Voltage	Output voltages available from 5VDC to 24VDC	See Table			
Voltage Tolerance		-10		+10	%
Line Regulation		-1		+1	%
Load Regulation		-0.5		+0.5	%
Output Power	Output power available up to 48 Watts	See Table			
Output Current	Output current available from 100mA to 5000mA	See Table			
Minimum Load		0			mA
Ripple & Noise (20MHz BW)	With 0.1μF ceramic and 10μF electrolytic capacitors in parallel	-1		+1	%
Hold-Up Time	100VAC/60Hz and full load	10			ms
Turn-on Time	100VAC/60Hz and full load			3	s
PROTECTION					
Over Voltage Protection		Output shut-down; Automatic recovery			
Over Current Protection		Output shut-down; Automatic recovery			
Short Circuit Protection		Output shut-down; Automatic recovery			
GENERAL SPECIFICATIONS					
Efficiency	At 100~240VAC, 50/60Hz, full load	75			%
Switching Frequency			65		KHz
Dielectric Withstand Voltage (I/P to O/P)	10mA/60 sec	3000			VAC
Insulation (I/P to O/P)	500VDC	10			MΩ
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		-20		40	°C
Storage Temperature		-20		75	°C
Operating Humidity		20		90	% RH
Storage Humidity		0		90	% RH
Cooling		Free air convection			
MTBF	0.5% annual field failure rate at 25°C	50,000			hours
PHYSICAL SPECIFICATIONS					
Dimensions (L x W x H)	3.82 x 1.77 x 1.48 inches (97.0 x 45.0 x 37.6 mm)				
Weight		8.75oz (248g)			
AC Plug	See “Model Number Setup” table on page 3 for suffix options	US, UK, EU, AUS, JP plug types			
Output Connector		Several options available			
Case Color		Several Pantone® color options available			
SAFETY					
Safety Approvals	UL60950, FCC Part 15, SAA, CE, GS, C-Tick, PSE, BS1363, CB				

## MECHANICAL DRAWING



## MODEL NUMBER SETUP

WMICP	48	24	U
Series Name	Output Power	Output Voltage <sup>(1)</sup>	AC Plug Type
	<b>25:</b> 25 Watts	<b>05:</b> 5 VDC	<b>U:</b> United States
	<b>36:</b> 36 Watts	<b>09:</b> 9 VDC	<b>K:</b> United Kingdom
	<b>45:</b> 45 Watts	<b>12:</b> 12 VDC	<b>E:</b> Europe
	<b>48:</b> 48 Watts	<b>24:</b> 24 VDC	<b>A:</b> Australia
			<b>J:</b> Japan

### Notes

1. Output voltages are available anywhere from 5VDC to 24VDC. Please call factory for ordering details.
2. Several output connector options are available. Please call factory for ordering details.

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**COMPANY INFORMATION**

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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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