

United States ("U" Suffix)



Size: 2.90 x 1.38 x 2.04 inches

United Kingdom ("K" Suffix)



Size: 2.95 x 1.97 x 2.31 inches

Europe ("E" Suffix)



Size: 2.90 x 1.38 x 2.04 inches

FEATURES

- Class II
- Single Outputs
- RoHS Compliant
- 100-240VAC Input Voltage Range
- 15~24 Watts Output Power
- Very Low Standby Power
- MTBF: 50,000 Hours
- 0°C to +40° Operating Temperature Range
- Over Voltage, Over Current, and Short Circuit Protection
- CEC / Energy Star Level V Compliant
- UL/cUL, FCC, CE, AV/CE, GS, AV/GS, CB, AV/CB, EUP, SAA BS1363, CCC, MEPS, PSE, KC and C-TICK Safety Approvals
- United States, United Kingdom, Europe, China, Australia and Japan AC Plug Types Available
- Several Output Connector Options Available

China ("C" Suffix)



Size: 2.90 x 1.38 x 2.04 inches

Australia ("A" Suffix)



Size: 2.91 x 1.38 x 2.74 inches

Japan ("J" Suffix)



Size: 2.90 x 1.38 x 2.04 inches

Korea ("KR" Suffix)



Size: 2.90 x 1.38 x 2.04 inches

DESCRIPTION

The WMSAW24 series of Class II AC/DC wall mount power supplies provides up to 24 Watts of output power. This series has single output models with an input voltage range of 100-240VAC. These supplies are protected against over voltage, over current, and short circuit conditions. The WMSAW24 series is RoHS and CEC/Energy Star Level V compliant and has UL/cUL, FCC, CE, AV/CE, GS, AV/GS, CB, AV/CB, EUP, SAA BS1363, CCC, MEPS, PSE, KC and C-TICK safety approvals. United States, United Kingdom, Europe, China, Australia, Korea and Japan AC plug types are available. Several output connector options are also available. Please contact the factory for ordering details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise ⁽²⁾	Output Power
WMSAW1505-x	100 ~ 240 VAC	5 VDC	3A	50mVp-p	15W
WMSAW1809-x		9 VDC	2A	90mVp-p	18W
WMSAW2209-x		9 VDC	2.5A	90mVp-p	22.5W
WMSAW1812-x		12 VDC	1.5A	120mVp-p	18W
WMSAW2412-x		12 VDC	2A	120mVp-p	24W
WMSAW2319-x		19 VDC	1.25A	190mVp-p	23.75W
WMSAW2424-x		24 VDC	1A	240mVp-p	24W

NOTES

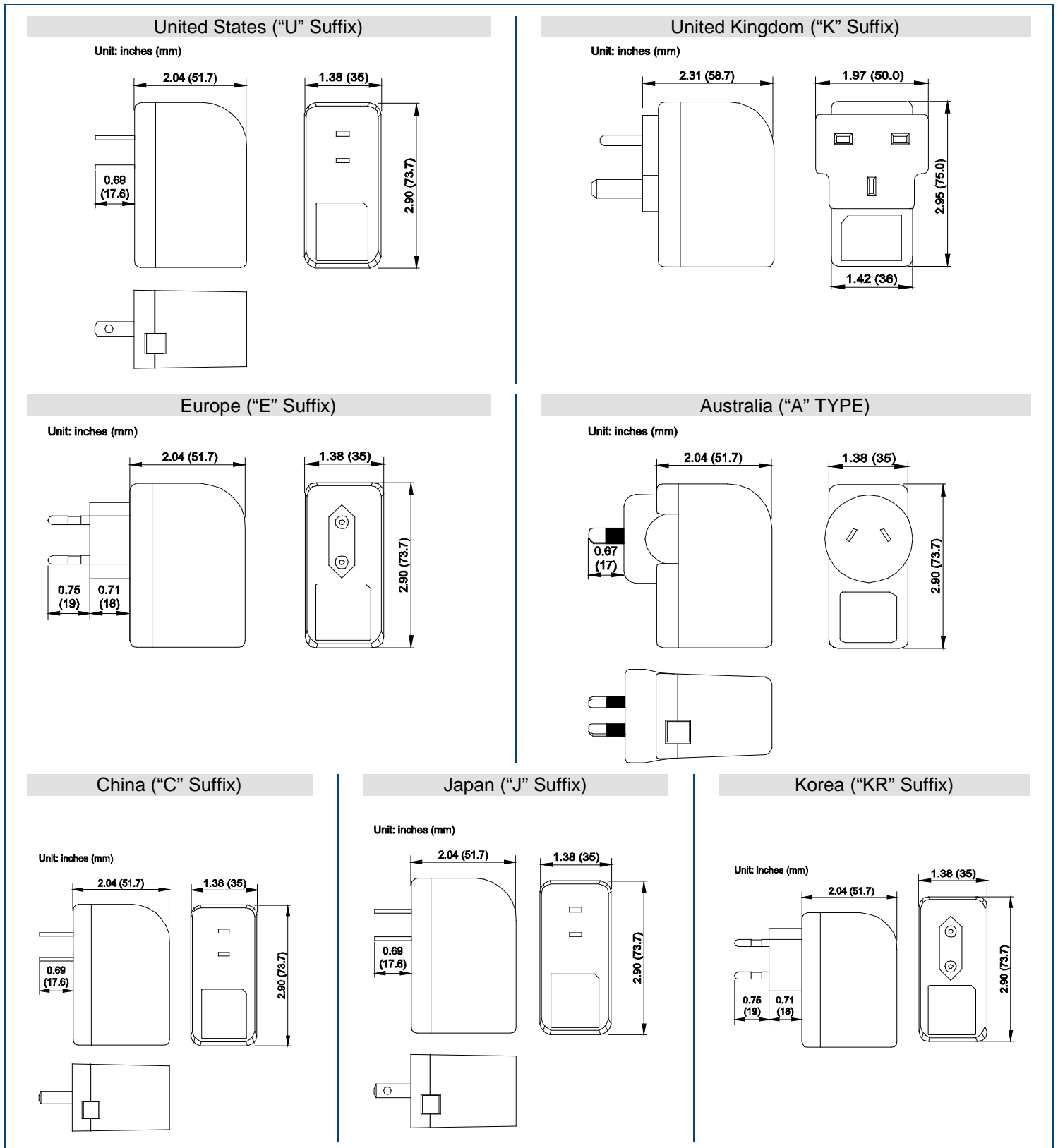
1. The "x" in the model number represents the type of plug: "U" for United States type, "K" for United Kingdom type, "E" for Europe type, "A" for Australia type, "C" for China type, and "J" for Japan type.
2. Ripple and noise is measured at 20MHz limited bandwidth with 0.1µF ceramic and 10µF electrolytic capacitors across the output
3. Optional output connectors available. Please call factory for ordering details.

SPECIFICATIONS: WMSAW24 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
Input Frequency		47	50/60	63	Hz
Input Current	90VAC/60Hz and full load			0.8	A
Inrush Current	100VAC and full load			30	A
	240VAC and full load			75	
Stand-by Power	230VAC/50Hz and no load			0.3	W
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Tolerance		-5		+5	%
Line Regulation		-1		+1	%
Load Regulation		-5		+5	%
Output Power		See Table			
Output Current		See Table			
Minimum Load		0			mA
Ripple & Noise		See Table			
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 voltage clamped by Zener diode			
Over Current Protection		Output shut-down; Automatic recovery			
Short Circuit Protection		Output shut-down; Automatic recovery			
GENERAL SPECIFICATIONS					
Efficiency		CEC-V / ERP / MEPS			
Switching Frequency			65		KHz
Dielectric Withstand Voltage	10mA / 60 sec	3000			VAC
Insulation (input to output)	500VDC	10			MΩ
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-20		60	°C
Operating Humidity		5		95	% RH
Cooling		Free air convection			
MTBF	@ 25°C (MIL-HDBK-217F)	50,000 hours			
PHYSICAL SPECIFICATIONS					
Dimensions (L x W x H)	United States Plug Type	Suffix "U"	2.90" x 1.38" x 2.04" (73.7 x 35.0 x 51.7 mm)		
	United Kingdom Plug Type	Suffix "K"	2.95" x 1.97" x 2.31" (75.0 x 50.0 x 58.7 mm)		
	Europe Plug Type	Suffix "E"	2.91" x 1.38" x 2.74" (74.0 x 35.0 x 69.7 mm)		
	Australia Plug Type	Suffix "A"	2.90" x 1.38" x 2.04" (73.7 x 35.0 x 51.7 mm)		
	China Plug Type	Suffix "C"	2.90" x 1.38" x 2.04" (73.7 x 35.0 x 51.7 mm)		
	Japan Plug Type	Suffix "J"	2.90" x 1.38" x 2.04" (73.7 x 35.0 x 51.7 mm)		
	Korean Plug Type	Suffix "KR"	2.91" x 1.38" x 2.74" (74.0 x 35.0 x 69.7 mm)		
Weight		Approximately 5.11oz (145g)			
AC Plugs		United States, United Kingdom, Europe, Australia, China, Korea, and Japan types			
SAFETY & COMPLIANCE					
Safety Approvals	UL/cUL, FCC, CE, AV/CE, GS, AV/GS, CB, AV/CB, EUP, SAA BS1363, CCC, MEPS, PSE, KC, and C-TICK				
Compliance	RoHS and CEC/Energy Star Level V compliant				

MECHANICAL DRAWINGS



MODEL NUMBER SETUP

WMSAW	24	24	-	U
Series Name	Output Power	Output Voltage		AC Plug Type
	15: 15 Watts	05: 5 VDC		U: United States
	17: 17.5 Watts	75: 7.5 VDC		K: United Kingdom
	18: 18 Watts	09: 9 VDC		E: Europe
	20: 20.7 Watts	12: 12 VDC		A: Australia
	22: 22.5 Watts	138: 13.8 VDC		C: China
	24: 24 Watts	24: 24 VDC		J: Japan
				KR: Korea

Note: Several output connector options are available. Please contact factory for ordering details.

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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