

HORIZONTAL TYPE ("H" Suffix)

United States ("U" Suffix)



United Kingdom ("K" Suffix)



Europe ("E" Suffix)



China ("C" Suffix)



Australia ("A" Suffix)



Japan ("J" Suffix)



HORIZONTAL TYPE ("V" Suffix)

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FEATURES

- Class II
- Single Outputs
- RoHS Compliant
- 100-240VAC Input Voltage Range
- Low Standby Power
- CEC / Energy Star Level VI (Except for 12V models) Compliant
- Vertical and Horizontal Types Available
- USB Type Output Connector
- Black (Standard) or White Case Colors Available
- Over Voltage, Over Current, & Short Circuit Protection
- UL/cUL, FCC, CE, GS, EUP, CB, BS1363, SAA, CCC, PSE, MEPS, & C-TICK Safety Approvals
- United States, United Kingdom, Europe, China, Australia, and Japan AC Plug Types Available

DESCRIPTION

The WMSAW6USB series of Class II AC/DC wall mount power supplies provides up to 6 Watts of output power. This series consists of single output models with an input voltage range of 100-240VAC and a USB type output connector. These supplies are protected against over voltage, over current, and short circuit conditions. The WMSAW6USB series is RoHS and CEC/Energy Star Level VI (Except for 12V models) compliant and has UL/cUL, FCC, CE, GS, EUP, CB, BS1363, SAA, CCC, PSE, MEPS, and C-TICK safety approvals. Vertical or horizontal package types are available for this series as well as United States, United Kingdom, Europe, China, Australia, and Japan AC plugs.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage	Output Voltage	Output Current	Line Regulation	Load Regulation	Ripple & Noise ⁽²⁾	Output Power	Package Type
WMSAW205USBV-xy	100~240 VAC	5 VDC	500mA	±1%	±5%	50mVp-p	2.5W	Vertical
WMSAW405USBV-xy		5 VDC	800mA	±1%	±5%	50mVp-p	4W	
WMSAW505USBV-xy		5 VDC	1000mA	±1%	±5%	50mVp-p	5W	
WMSAW605USBV-xy		5 VDC	1200mA	±1%	±5%	50mVp-p	6W	
WMSAW306USBV-xy		6 VDC	500mA	±1%	±5%	50mVp-p	3W	
WMSAW406USBV-xy		6 VDC	800mA	±1%	±5%	50mVp-p	4.8W	
WMSAW606USBV-xy		6 VDC	1000mA	±1%	±5%	50mVp-p	6W	
WMSAW675USBV-xy		7.5 VDC	800mA	±1%	±5%	50mVp-p	6W	
WMSAW409USBV-xy		9 VDC	500mA	±1%	±5%	50mVp-p	4.5W	
WMSAW509USBV-xy		9 VDC	600mA	±1%	±5%	50mVp-p	5.4W	
WMSAW612USBV-xy		12 VDC	500mA	±1%	±5%	50mVp-p	6W	
WMSAW205USBH-xy	100~240 VAC	5 VDC	500mA	±1%	±5%	50mVp-p	2.5W	Horizontal
WMSAW405USBH-xy		5 VDC	800mA	±1%	±5%	50mVp-p	4W	
WMSAW505USBH-xy		5 VDC	1000mA	±1%	±5%	50mVp-p	5W	
WMSAW605USBH-xy		5 VDC	1200mA	±1%	±5%	50mVp-p	6W	
WMSAW306USBH-xy		6 VDC	500mA	±1%	±5%	50mVp-p	3W	
WMSAW406USBH-xy		6 VDC	800mA	±1%	±5%	50mVp-p	4.8W	
WMSAW606USBH-xy		6 VDC	1000mA	±1%	±5%	50mVp-p	6W	
WMSAW675USBH-xy		7.5 VDC	800mA	±1%	±5%	50mVp-p	6W	
WMSAW409USBH-xy		9 VDC	500mA	±1%	±5%	50mVp-p	4.5W	
WMSAW509USBH-xy		9 VDC	600mA	±1%	±5%	50mVp-p	5.4W	
WMSAW612USBH-xy		12 VDC	500mA	±1%	±5%	50mVp-p	6W	

SPECIFICATIONS: WMSAW6USB 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					300	mA
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					50		mVp-p
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)				See drawings			
Weight	Horizontal type			1.52oz (43g)			
	Vertical type			1.59oz (45g)			
Output Connector				USB Type			
AC Plug Types	"U" suffix	See "Model Number Setup" Table on page 5		United States			
	"K" suffix			United Kingdom			
	"E" suffix			Europe			
	"A" suffix			Australia			
	"C" suffix			China			
	"J" suffix			Japan			
Package Type	"V" suffix	See "Model Number Setup" Table on page 5		Vertical			
	"H" suffix			Horizontal			
SAFETY & COMPLIANCE							
Safety Approvals	UL/cUL, FCC, CE, GS, EUP, CB, BS1363, SAA, CCC, PSE, MEPS, and C-TICK						
Compliance	RoHS and CEC/Energy Star Level VI compliant						

NOTES

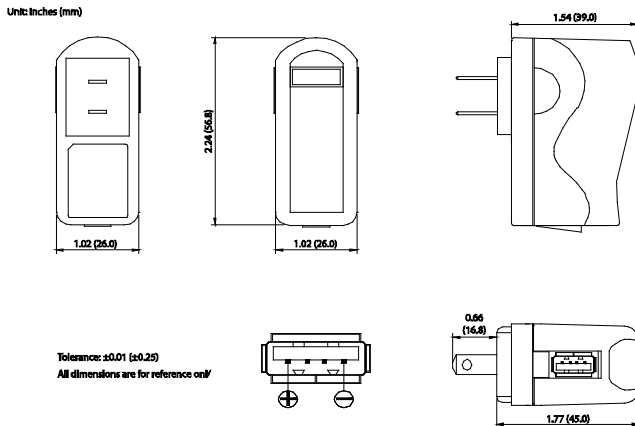
1. The "x" in the model number represents the type of plug: it can be "U" for United States type, "K" for United Kingdom type, "E" for Europe type, "A" for Australia type, "C" for China type, and "J" for Japan type. The "y" in the model represents the color of the case: it can be "W" for a white case or leave blank for a black case.

2. Ripple and noise is measured at 20MHz limited bandwidth with 0.1μF ceramic and 10μF electrolytic capacitors across the output.

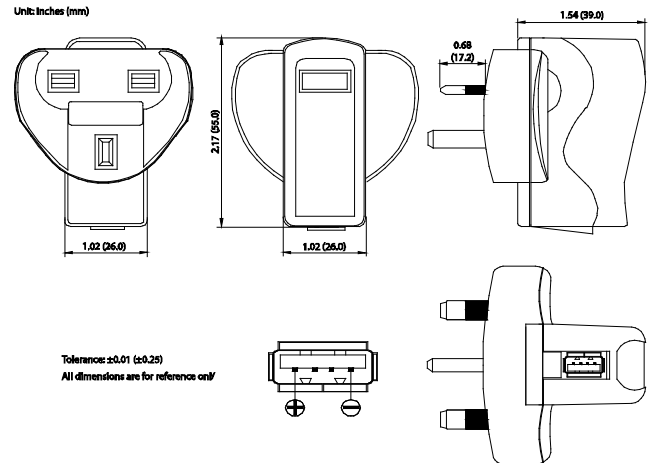
MECHANICAL DRAWINGS

HORIZONTAL TYPE ("H" SUFFIX)

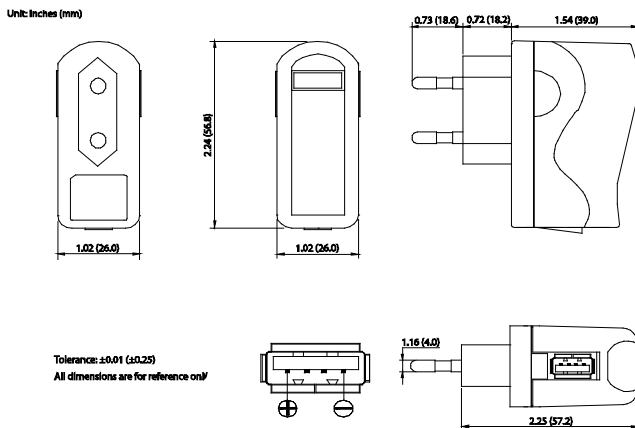
United States ("U" Suffix)



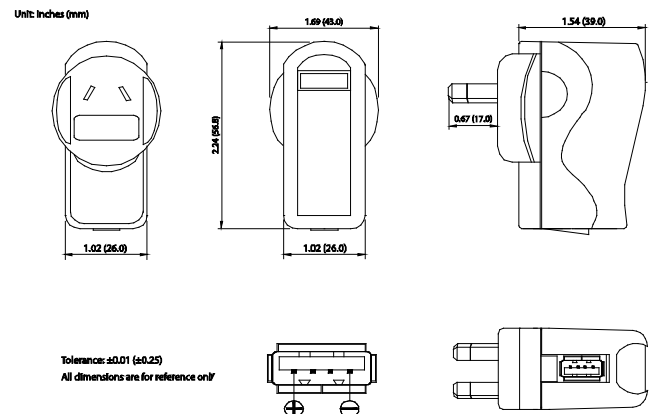
United Kingdom ("K" Suffix)



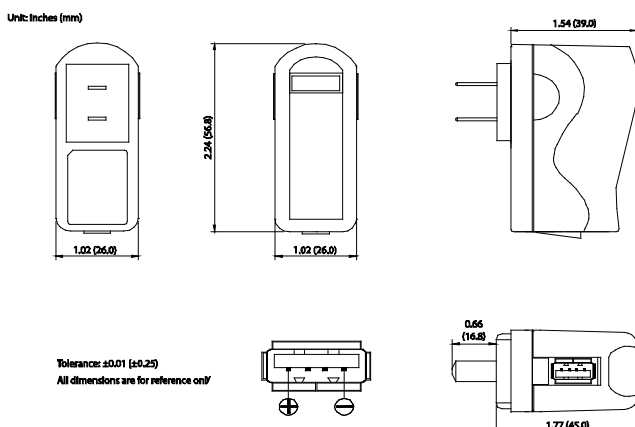
Europe ("E" Suffix)



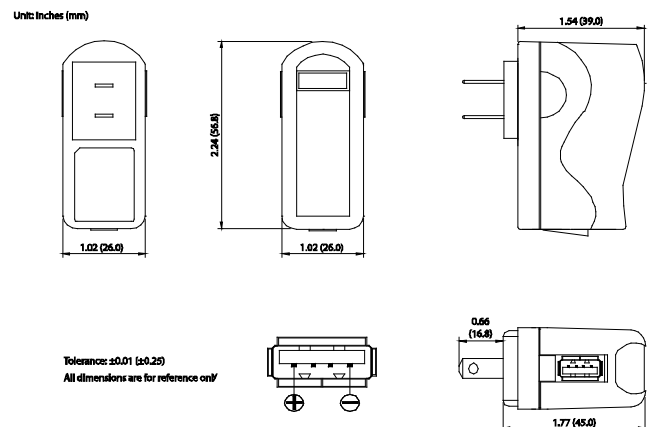
Australia ("A" TYPE)



China ("C" Suffix)



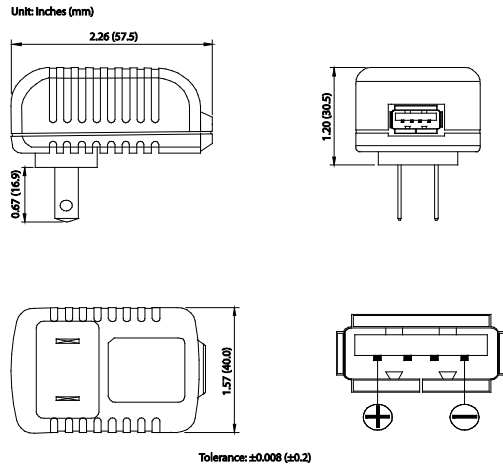
Japan ("J" Suffix)



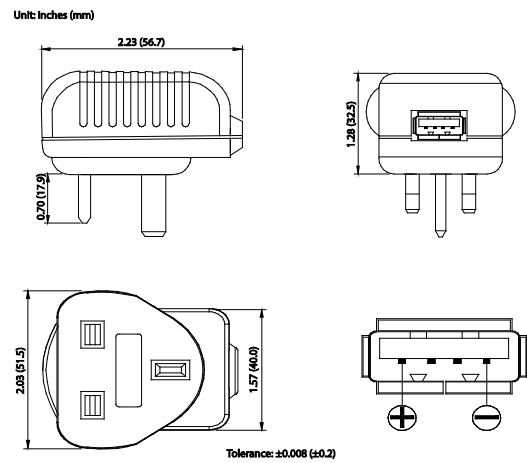
MECHANICAL DRAWINGS

VERTICAL TYPE ("V" SUFFIX)

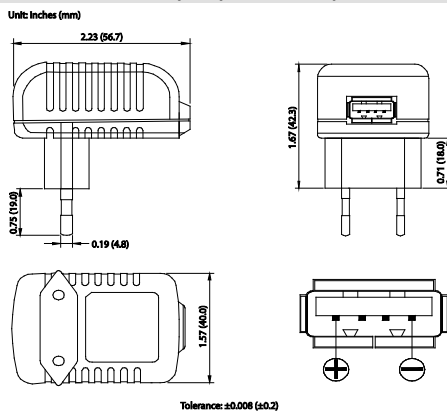
United States ("U" Suffix)



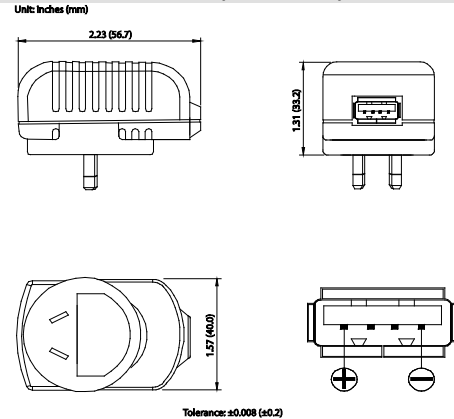
United Kingdom ("K" Suffix)



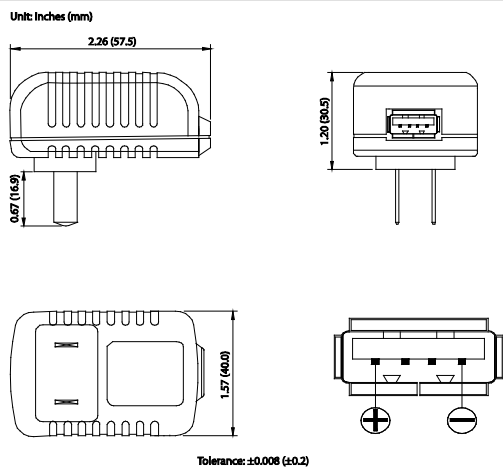
Europe ("E" Suffix)



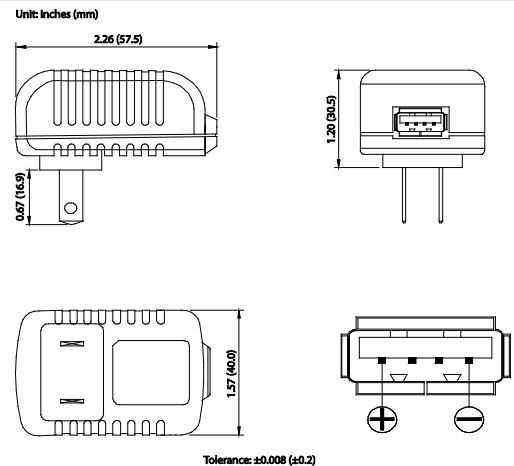
Australia ("A" TYPE)



China ("C" Suffix)



Japan ("J" Suffix)



MODEL NUMBER SETUP

WMSAW	6	12	USB	V	-	U	W
Series Name	Output Power	Output Voltage	Output Connector	Package Type		AC Plug Type	Case Color
	2: 2.5 Watts	05: 5 VDC	USB: USB Type	V: Vertical		U: United States	None: Black
	3: 3 Watts	06: 6 VDC		H: Horizontal		K: United Kingdom	W: White
	4 Watts	75: 7.5 VDC				E: Europe	
	4: 4.5 watts 4.8 Watts	09: 9 VDC				A: Australia	
	5: 5 Watts 5.4 Watts	12: 12 VDC				C: China	
	6: 6 Watts					J: Japan	

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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