

U Type: US Plug



B Type: UK Plug



G Type: EU Plug



A Type: Aus Type



Size: 2.80in x 1.70in x 1.14in (71.2mm x 43.2mm x 29mm)

OPTIONS

- Plug Type
- Output Voltage

FEATURES

- Wide Input Voltage Range 90~264VAC
- High Efficiency
- RoHS Compliant
- Over Current and Short Circuit Protection
- Level VI Compliant
- Drop In Tested
- Burn-In Tested
- Optional Plug Types Available: US Plug, UK Plug, EU Plug, and AUS Plug
- Multiple Output Voltages Available

DESCRIPTION

The WMSAW30 series of AC DC wall mount power supplies provides up to 24 watts of output power in a compact 2.80" x 1.70" x 1.14" package. This series consists of single output models with a wide input voltage range of 90~264VAC and multiple output voltages available. Four different plugs are available for this series: US plug, UK plug, EU plug, AUS plug. All models are RoHS and Energy Efficiency Level VI compliant. Models are also protected against over current and short circuit conditions and have been drop-in and burn-in tested. Please call factory for ordering details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise ⁽²⁾	Output Power Range	Efficiency
			Min Load	Max Load			
WMSAW30-090-2000x	90~264VAC	9V	0A	2000mA	90mV	15~30W	Level VI
WMSAW30-090-3000x		9V	0A	3000mA	90mV		
WMSAW30-120-1500x		12V	0A	1500mA	120mV		
WMSAW30-120-2000x		12V	0A	2000mA	120mV		
WMSAW30-120-2500x		12V	0A	2500mA	120mV		
WMSAW30-180-1000x		18V	0A	1000mA	150mV		
WMSAW30-240-1000x		24V	0A	1000mA	150mV		

SPECIFICATIONS

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.

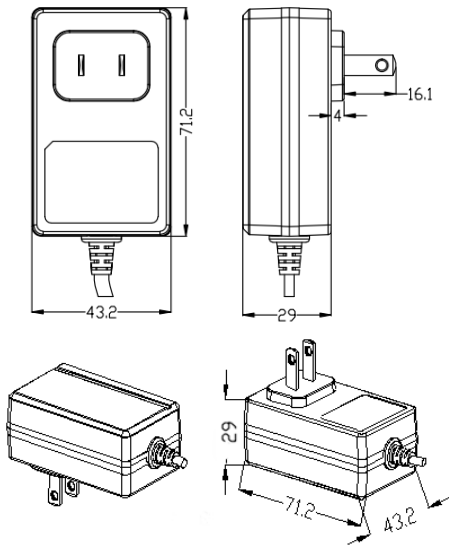
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90	100~240	264	VAC
Input Frequency		47	60/50	63	Hz
Input Current	@100-240VAC input & Full Load			1.2	A
Inrush Current	@Nominal Input, Cold Start			40	A
No Load Standby Power	100-240V			0.1	W
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation		-1		+1	%
Load Regulation		-5		+5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (20MHz BW)				240	mVp-p
Transient Response Recovery Time	All outputs for load step from 25% to 50% to 25%, 50% to 75% to 50% R/S: 0.25A/uS		200		uS
Dynamic Response Overshoot			5		%
Turn-On Delay Time	@100VAC to 240VAC Input & Full Load			3	S
Hold-Up Time	@Full Load & 115VAC/60Hz input turn off at worst case	10			mS
	@Full Load & 230VAC/50Hz input turn off at worst case	20			
Rise Time	@Rated Load			20	mS
Fall Time	@Full Load			20	mS
Output Overshoot/Undershoot	When the power is on or off			10	%
PROTECTION					
Short Circuit Protection	The input power will decrease when the output rail shorts, the power supply will not damage and will self-recover when the fault condition is removed.				
Over Current Protection	The output will hiccup when the over currents are applied to the output rail and will self-recovery when the fault condition is removed.				
Over Current Point Limited	100-240VAC	5V Models		<7	A
		7.5V Models		<5.5	
		9V (2.5A) Models		<5	
		9V (3A) Models		<6.5	
		12V Models		<4	
ENVIRONMENTAL SPECIFICATIONS					
Operating Case Temperature		10		40	°C
Operating Relative Humidity		10		90	%RH
Storage Temperature		-20		80	°C
Storage Relative Humidity	Non-Condensing @Sea level shall be below 2,000 meter	5		95	%RH
Vibration	Sweep at a constant acceleration of 1.0G (breadth: 3.5mm) for 1 hour for each of the perpendicular axes X, Y, Z.	10		300	Hz
MTBF	@25°C ambient temperature max. working load, according to MIL-HDBK-217	50,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Drop In	Height: 1m; the product should be felled off on the hardwood with the thickness of 20mm, and the hardwood should be put on a cement base or on the ground without flexibility. Apply two times on all surfaces. Apply two times on all corners.				
Burn-In	The power supply will be burned-in for 4 hours under normal input and 80% rated load at 40°C±5°C				
Dielectric Strength (Hi-Pot)	Primary to Secondary:	3000VAC/ 10mA Max./ 60 second			
	Primary to Secondary:	3300VAC/ 5mA Max./ 3S			
Leakage Current	@264VAC/50Hz			0.25	mA
Insulation Resistance	@Primary to Secondary add 500VDC test voltage	50			MΩ
PHYSICAL SPECIFICATIONS					
Weight		Approx. 5.29oz (150g)			
Dimensions (L x W x H)	US Type	2.80in x 1.70in x 1.14in (71.2mm x 43.2mm x 29mm)			
SAFETY					
Safety Approvals		UL, CUL, FCC CE & GS SAA & C-Tick CB & BS1363			

NOTES

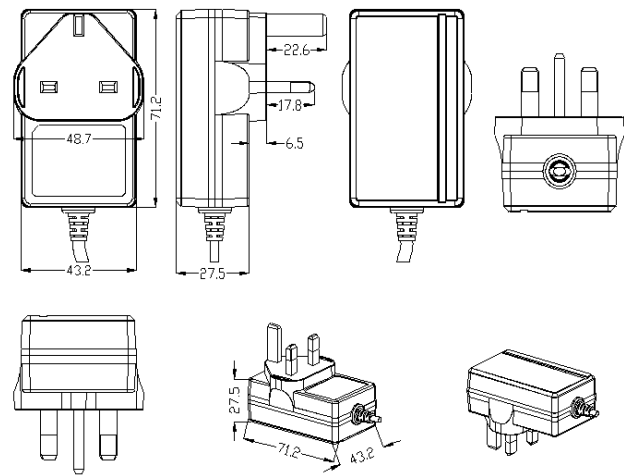
- (1) "x" in model name refers to plug type option. "x" can either be "U" for U type =US plug, "B" for B type =UK plug, "G" for G type =EU plug, or "A" for A type= Aus plug.
- (2) Ripple & Noise is measured by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor. (Tested under rated input and rated output conditions)

MECHANICAL DRAWINGS

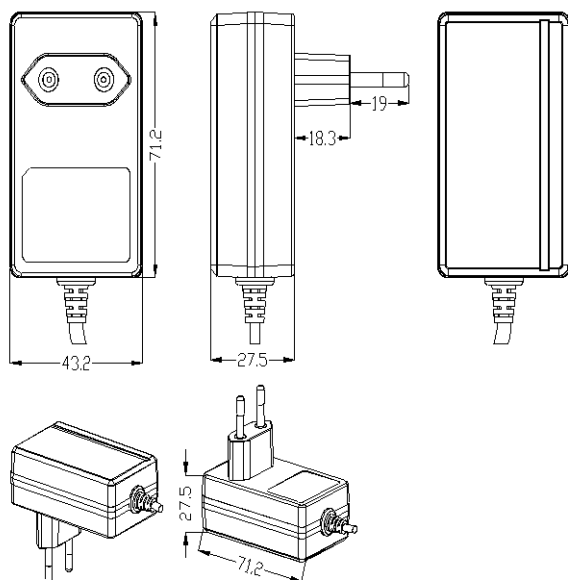
U Type- US Plug



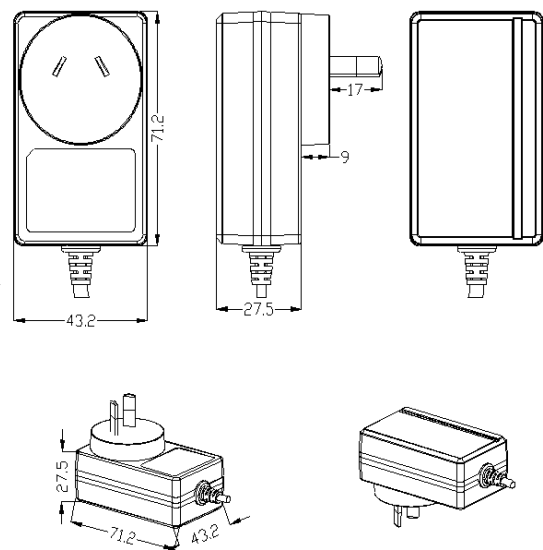
B Type- UK Plug



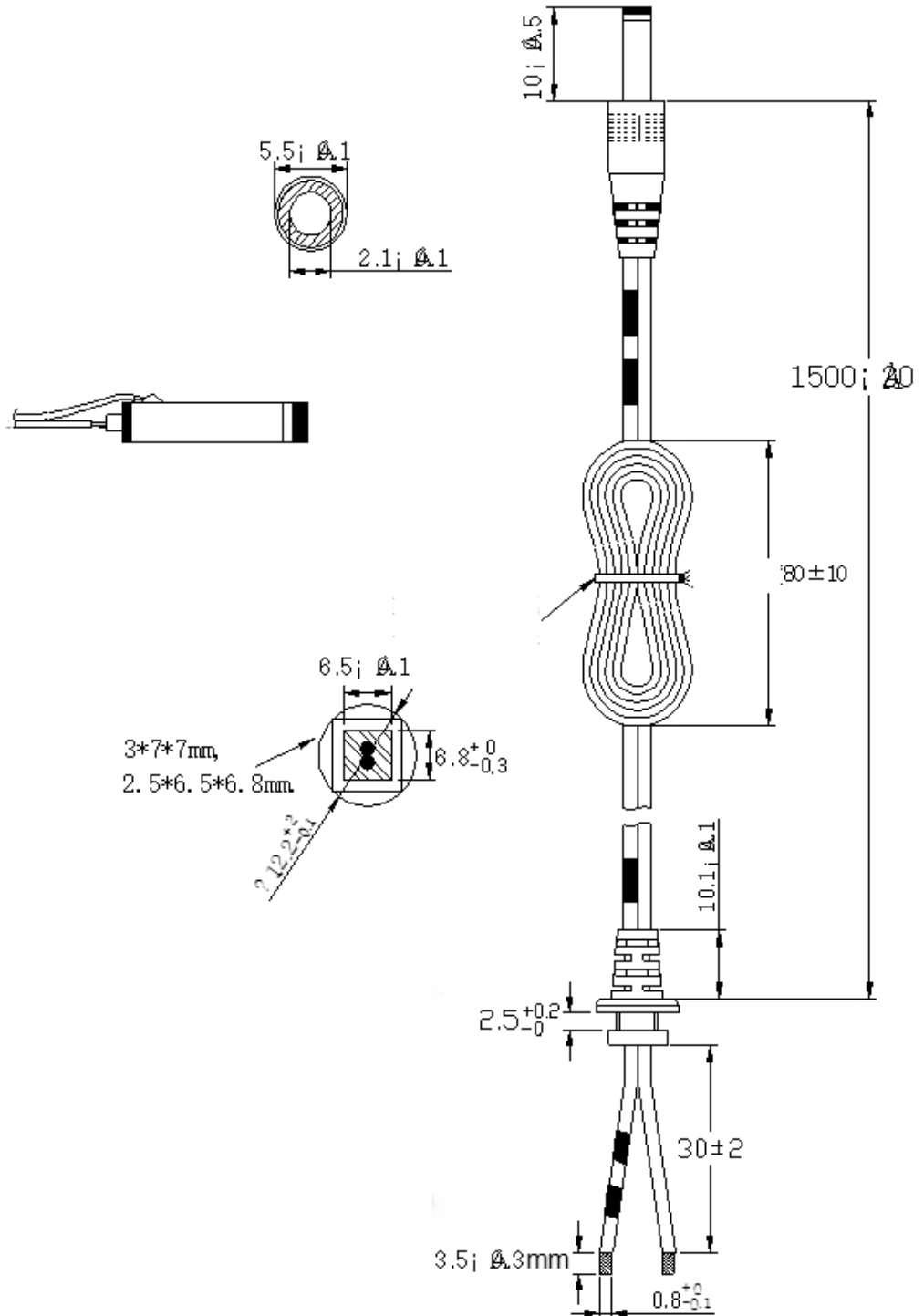
G Type- EU Plug



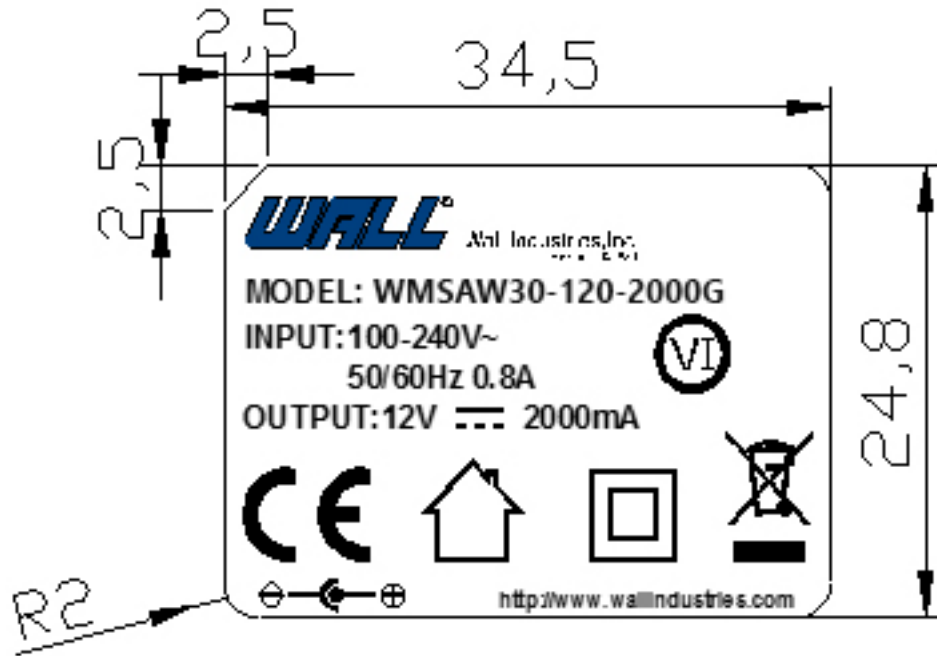
A Type- Aus Plug



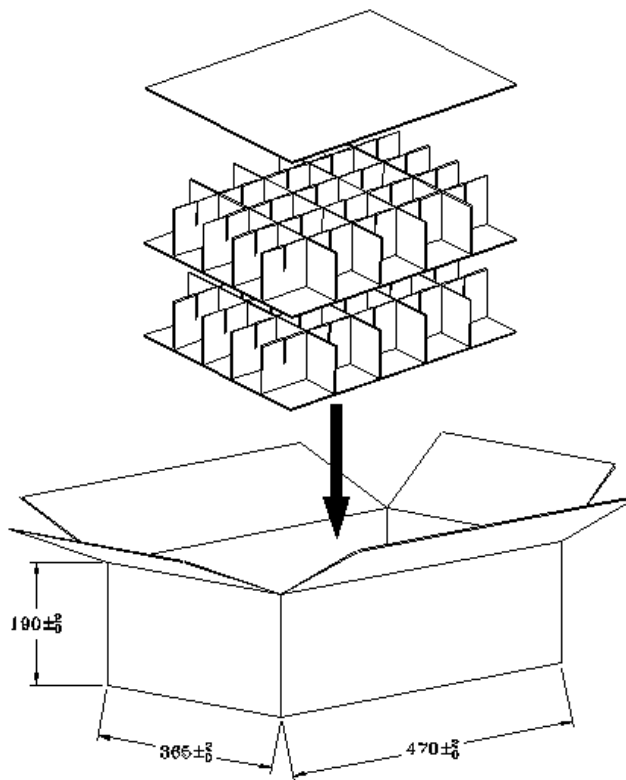
Cord Drawing



Label Drawing



Package Drawing



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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