

Size: 2.3in x 1.54in x 1.04in (60.5mm x 39mm x 26.5mm)



Size: 2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)

OPTIONS

- AC Plug Type
- Case Direction

FEATURES

- Wide Input Range of 100VAC to 240VAC
- Output Voltage Ranging from 5V to 48V
- RoHS Compliant
- Maximum Output Power of 24 Watts
- MTBF >100,000 Hours
- Vertical or Horizontal Package Available
- Short Circuit, Over Voltage, and Over Current Protection
- Meets DoE Efficiency Level VI, CoC Tier 2
- 5 AC Plug Types Available: USA, EU, UK, SAA, and China
- Meets UL/cUL, CB, CE, FCC, and CCC Safety Approvals

DESCRIPTION

The WMEA1019 series of wall mount power supplies offers up to 24 watts of output power in a compact package. This series consists of single output models with output voltages ranging from 5~48V and wide input voltage range of 100VAC to 240VDC. This series offers short circuit, over voltage, over current, and over temperature protection and is RoHS and Efficiency Level VI compliant. Two case types are available, horizontal or vertical, and 5 different AC plug types are available: USA plug, EU plug, UK plug, SAA plug, and China plug. This series meets UL/cUL, CB, CE, FCC, and CCC safety approvals. Please call factory for order details.

MODEL SELECTION TABLE

Vertical Models

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise ⁽²⁾	Output Power	Efficiency Level
			Min Load	Max Load			
WMEA1019AVx	100-240VAC	5-8V	0A	3A	100mV	15W	Level VI
WMEA1019BVx		9-13V	0A	2A	180mV	20W	
WMEA1019CVx		14-19V	0A	1.42A	200mV	20W	
WMEA1019DVx		20-27V	0A	1A	250mV	20W	
WMEA1019EVx		28-35V	0A	0.71A	280mV	20W	
WMEA1019FVx		36-48V	0A	0.55A	360mV	20W	
WMEA1019GVx		5-8V	0A	3A	100mV	18W	
WMEA1019HVx		9-13V	0A	2A	180mV	24W	
WMEA1019JVx		14-19V	0A	1.71A	200mV	24W	
WMEA1019KVx		20-27V	0A	1.2A	250mV	24W	
WMEA1019MVx		28-35V	0A	0.85A	280mV	24W	
WMEA1019NVx		36-48V	0A	0.66A	360mV	24W	

MODEL SELECTION TABLE

Horizontal Models

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise ⁽²⁾	Output Power	Efficiency Level
			Min Load	Max Load			
WMEA1019AHx	100-240VAC	5-8V	0A	3A	100mV	15W	Level VI
WMEA1019BHx		9-13V	0A	2A	180mV	20W	
WMEA1019CHx		14-19V	0A	1.42A	200mV	20W	
WMEA1019DHx		20-27V	0A	1A	250mV	20W	
WMEA1019EHx		28-35V	0A	0.71A	280mV	20W	
WMEA1019FHx		36-48V	0A	0.55A	360mV	20W	
WMEA1019GHx		5-8V	0A	3A	100mV	18W	
WMEA1019HHx		9-13V	0A	2A	180mV	24W	
WMEA1019JHx		14-19V	0A	1.71A	200mV	24W	
WMEA1019KHx		20-27V	0A	1.2A	250mV	24W	
WMEA1019MHx		28-35V	0A	0.85A	280mV	24W	
WMEA1019NHx		36-48V	0A	0.66A	360mV	24W	

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.

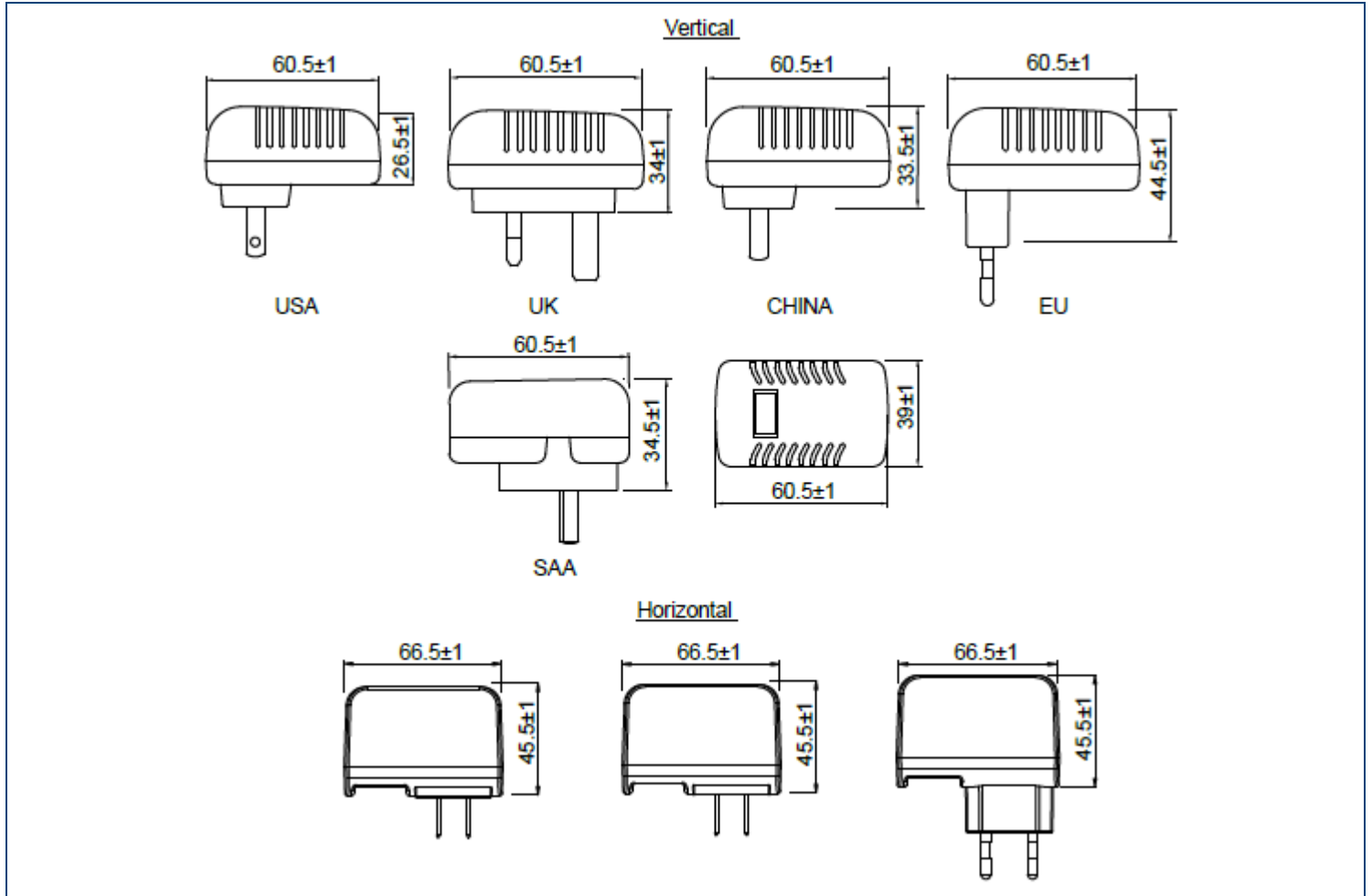
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current			≤0.8		A
Inrush Current	@230VAC, Cold Start, Maximum Load		≤80		A
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation ⁽³⁾		-1		+1	%
Load Regulation		-5		+5	%
Output Power		See Table			
Output Current		See Table			
Minimum Load		0			A
No Load Power			≤0.1		W
Ripple & Noise (20MHz bandwidth) ⁽²⁾		See Table			
Turn On Time			≤3		S
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Current Protection		Automatic Recovery			
Over Voltage Protection		Automatic Recovery			
ENVIRONMENTAL SPECIFICATIONS					
Operating Case Temperature		0		40	°C
Storage Temperature		-20		85	°C
Storage Humidity		5		95	%
MTBF		100,000			hours
PHYSICAL SPECIFICATIONS					
Weight		4.23oz (120g)			
Dimensions (L x W x H)	Vertical Models	2.36in x 1.54in x 1.04in (60mm x 39mm x 26.5mm)			
	Horizontal Models	2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)			
SAFETY					
Safety Approvals		UL/cUL ⁽⁵⁾ , CB, CE, FCC, CCC			

NOTES

- (1) 'x' In model name represents plug type. "X" can be "U" for US Plug, "E" for EU plug, "K" for UK plug, "A" for SAA plug, or "C" for China plug. Please note that only US, China, and EU plugs are available for horizontal case.
- (2) Ripple and noise is measured using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1µF ceramic capacitor & parallel with 47µF aluminum capacitor at full load and nominal line.
- (3) Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- (4) Certificates listed are for reference only. Please contact factory for details.
- (5) This product is Listed to applicable standards and requirements by UL.

Due to advances in technology, specifications are subject to change without notice.

MECHANICAL DRAWINGS



MODEL NUMBER SETUP

WMEA1019	A	V	U
Series Name	Output Voltage Range	Case Type	Plug
	A: 5-8V B: 9-13V C: 14-19V D: 20-27V E: 28-35V F: 36-48V G: 5-8V H: 9-13V J: 14-19V K: 20-27V M: 28-35V N: 36-48V	V: Vertical H: Horizontal	U: US Plug E: EU Plug K: UK Plug A: SAA Plug C: China Plug U: US Plug C: China E: EU Plug

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: 2015 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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