



Size: 2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)

# **FEATURES**

- Input Voltage Range of 100-240VAC
- RoHS Compliant
- DoE Level VI Compliant
- USA, EU, UK, SAA, and China Plugs Available
- · Strain Relief Output Type
- Over Voltage, Over Current, and Short Circuit Protection
- UL/cUL, UL60601, CB 60601, CE, and FCC Safety Approvals

#### **DESCRIPTION**

The WMEM1019 series of AC/DC wall mount power supplies offers up to 24 watts of output power in a 2.36" x 1.54" x 1.02" case size. This series consists of single output and an input voltage range of 100-240VAC. Each model in this series is RoHS and DOE level VI compliant and has over voltage, over current, and short circuit protection. This series also has UL/cUL, UL60601, CB 60601, CE, and FCC safety approvals. Please call factory for order details

MODEL SELECTION TABLE								
Model Number <sup>(1)</sup>	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise	Output Power		
			Min Load	Max Load	Rippie & Noise	Output Power		
WMEM1019Axy	100-240VAC	5-8V	0A	3.0A	100mV	15W		
WMEM1019Bxy		9-13V	0A	2.0A	150mV	20W		
WMEM1019Cxy		14-19V	0A	1.42A	200mV	20W		
WMEM1019Dxy		20-27V	0A	1.0A	250mV	20W		
WMEM1019Exy		28-35V	0A	0.71A	280mV	20W		
WMEM1019Fxy		36-48V	0A	0.55A	360mV	20W		
WMEM1019Gxy		5-8V	0A	3.0A	100mV	18W		
WMEM1019Hxy		9-13V	0A	2.0A	180mV	24W		
WMEM1019Jxy		14-19V	0A	1.71A	200mV	24W		
WMEM1019Kxy		20-27V	0A	1.2A	250mV	24W		
WMEM1019Mxy		28-35V	0A	0.85A	280mV	24W		
WMEM1019Nxy		36-48V	0A	0.66A	360mV	24W		

Line Regulation (2)         ±1         %           Load Regulation         ±5         %           Output Power         See Table           Output Current         See Table           Ripple & Noise(3)         See Table           No Load Power         ≤0.1         W           Turn On Time         ≤3         S           PROTECTION         Automatic Recovery           Over Current Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Automatic Recovery           Storage Temperature         0         40         °C           Storage Temperature         -20         85         °C           Storage Temperature         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Fifficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight         4.23oz (120g)           Weight         4.23oz (120g)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)         A6.5mm)	SPECIFICATIONS							
SPECIFICATION   TEST CONDITIONS   Min   Typ   Max   Unit	All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.							
Input Voltage Range   100   240   VAC   Input Voltage Range   200   VAC   Input Current   200   240   VAC   Input Current   200   240   VAC   Input Current   200   200   VAC   Input Current   200   VAC   VAC   Input Current   200   VAC   V		Ve reserve the right to change specifications based on technol						
Input Voltage Range		TEST CONDITIONS	Min	Тур	Max	Unit		
Injust Current						,		
Inrush Current			100		240			
OUTPUT SPECIFICATIONS         See Table           Output Voltage         \$ 5e Table           Line Regulation(2)         \$ ±1         %           Coutput Power         \$ 5e Table         %           Output Current         \$ 5ee Table         \$ 5ee Table           Ripple & Noise(3)         \$ 5ee Table         \$ 5ee Table           No Load Power         \$ 0.1         \$ W           Turn On Time         \$ 3         \$ \$           PROTECTION         Automatic Recovery           Short Circuit Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         \$ 0         \$ 40         ° C           Storage Temperature         \$ 0         \$ 40         ° C           Storage Humidity         \$ 5         90         %           MTBF         \$ 100,000         Hours           GENERAL SPECIFICATIONS         * 4.23oz (120g)           Fificiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         * 4.23oz (120g)           Weight         * 4.23oz (120g)           Dimensions (L x W x H)         * 4.23oz (120g)	•			≤0.8		Α		
Output Voltage         See Table           Line Regulation <sup>(2)</sup> ±1         %           Load Regulation         ±5         %           Output Power         See Table         %           Output Current         See Table         Regular Notes         See Table         Regular Notes         Notes         Notes         See Table         Notes		@230VAC, cold start, maximum load						
Line Regulation   2	OUTPUT SPECIFICATIONS							
Load Regulation         ±5         %           Output Power         See Table         See Table           Output Current         See Table         See Table           Ripple & Noise <sup>(3)</sup> See Table         No Load Power         ≤0.1         W           Turn On Time         ≤3         S           PROTECTION         Automatic Recovery         See Table           Short Circuit Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Automatic Recovery           Operating Temperature         0         40         °C           Storage Temperature         90         %           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Horisontal Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           PHYSICAL SPECIFICATIONS         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 26mm x 45.5mm)           SAFETY CHARACTERISTICS         4.23oz (120g)         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Output Voltage			See Tabl	е			
Output Power         See Table           Output Current         See Table           Ripple & Noise <sup>(3)</sup> See Table           No Load Power         ≤0.1         W           Turn On Time         ≤3         S           PROTECTION           Short Circuit Protection         Automatic Recovery           Over Current Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Operating Temperature         0         40         °C           Storage Temperature         90         %         M         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Meets DOE Level VI           Dimensions (L x W x H)         4.23oz (120g)           Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS	Line Regulation <sup>(2)</sup>			±1				
Output Current         See Table           Ripple & Noise <sup>(S)</sup> See Table           No Load Power         ≤0.1         W           Turn On Time         ≤3         S           PROTECTION         Automatic Recovery           Short Circuit Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         No decovery           Operating Temperature         0         40         °C           Storage Temperature         -20         85         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Meets DOE Level VI           Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         4.23oz (120g)           Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Load Regulation			±5		%		
Ripple & Noise <sup>(3)</sup>	Output Power	See Table						
No Load Power         ≤0.1         W           Turn On Time         ≤3         S           PROTECTION           Short Circuit Protection         Automatic Recovery           Over Current Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Operating Temperature         0         40         °C           Storage Temperature         -20         85         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS           Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight           Dimensions (L x W x H)         4.23oz (120g)           Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 45.5mm)	Output Current	See Table						
Turn On Time         ≤3         S           PROTECTION         Automatic Recovery           Over Current Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         O         40         °C           Storage Temperature         0         40         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight         4.23oz (120g)           Weight         4.23oz (120g)         Vertical Case           Horizontal Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS	Ripple & Noise <sup>(3)</sup>		See Table					
PROTECTION   Short Circuit Protection   Automatic Recovery	No Load Power			≤0.1		W		
Short Circuit Protection         Automatic Recovery           Over Current Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Temperature           Operating Temperature         0         40         °C           Storage Temperature         -20         85         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight         4.23oz (120g)           Weight         4.23oz (120g)         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Turn On Time			≤3		S		
Over Current Protection         Automatic Recovery           Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Storage Temperature           Operating Temperature         0         40         °C           Storage Temperature         -20         85         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight         4.23oz (120g)           Weight         4.23oz (120g)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           Dimensions (L x W x H)         Vertical Case         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	PROTECTION							
Over Voltage Protection         Automatic Recovery           ENVIRONMENTAL SPECIFICATIONS         Operating Temperature         0         40         °C           Storage Temperature         -20         85         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Short Circuit Protection		Д	utomatic Re	covery			
ENVIRONMENTAL SPECIFICATIONS	Over Current Protection	Automatic Recovery						
Operating Temperature         0         40         °C           Storage Temperature         -20         85         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS           Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Over Voltage Protection	Automatic Recovery						
Storage Temperature         -20         85         °C           Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS           Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	ENVIRONMENTAL SPECIFICATIONS							
Storage Humidity         5         90         %           MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS           Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS	Operating Temperature		0		40	°C		
MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         Vertical Case         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Storage Temperature		-20		85	°C		
MTBF         100,000         Hours           GENERAL SPECIFICATIONS         Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         Vertical Case         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Storage Humidity		5		90	%		
Efficiency         Meets DOE Level VI           PHYSICAL SPECIFICATIONS         4.23oz (120g)           Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case (Horizontal Case)         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	MTBF		100,000			Hours		
PHYSICÁL SPECIFICATIONS           Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case Horizontal Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	GENERAL SPECIFICATIONS							
Weight         4.23oz (120g)           Dimensions (L x W x H)         Vertical Case Horizontal Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	Efficiency	Meets DOE Level VI						
Dimensions (L x W x H)         Vertical Case Horizontal Case         2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)           SAFETY CHARACTERISTICS         2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)	PHYSICAL SPECIFICATIONS							
Horizontal Case 2.62in x 1.02in x 1.79in (66.5mm x 26mm x 45.5mm)  SAFETY CHARACTERISTICS	Weight							
SAFETY CHARACTERISTICS  2.62IN X 1.02IN X 1.79IN (66.5mm X 26mm X 45.5mm)	Dimensions (L. v. M. v. II)	Vertical Case 2.36in x 1.54in x 1.02in (60.5mm x 39mm x 26.5mm)						
	Dilliensions (L x vv x n)							
Safety Approvals <sup>(5)</sup> UL/cUL, UL60601, CB 60601, CE, FCC	SAFETY CHARACTERISTICS							
	Safety Approvals <sup>(5)</sup>	UL/cUL, UL60601, CB 60601, CE, FC	C					

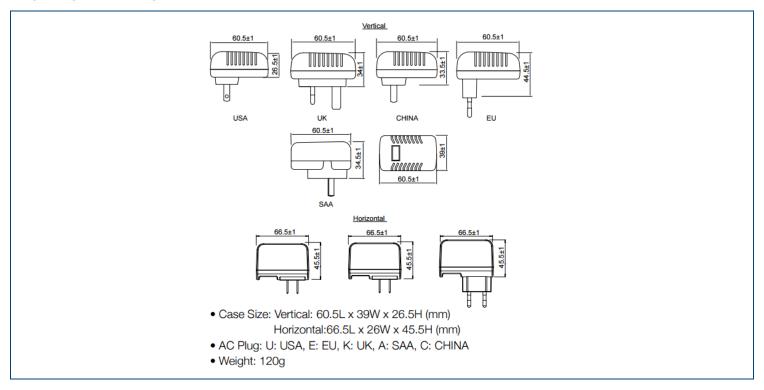


## **NOTES**

- "X" in model number indicates case direction. "X" can either be "V" for Vertical or "H" for Horizontal.
   "Y" in model number indicates plug type. "Y" can either be "U" for USA plug, "E" for EU plug, "K" for UK plug, "A" for SAA plug, or "C" for China plug. Please note that UK and SAA plugs are not available for Horizontal case.
- 2. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 3. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
- 4. Please note there is a 500pc min. production order required.
- 5. This product is Listed to applicable standards and requirements by UL.

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

#### MECHANICAL DRAWINGS -



# MODEL NUMBER SETUP -

WMEM1019	Α	X	y
Series Name	Output Voltage	Case Direction	Plug Type
	<b>A/G</b> : 5-8V	V: Vertical	K: UK Plug
	<b>B/H</b> : 9-13V		A: SAA Plug
	<b>C/J</b> : 14-19V	H: Horizontal	<b>U</b> : US Plug
	<b>D/K</b> : 20-27V		E: EU Plug
	<b>E/M</b> : 28-35V		C: China Plug
	<b>F/N</b> : 36-48V		



### **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.

## Contact Wall Industries for further information:

Phone: ☎(603)778-2300 Toll Free: ☎(888)597-9255 Fax: ☎(603)778-9797

E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive

Exeter, NH 03833

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