

US Plug



Size: 2.97in x 1.26in x 1.87in

EU Plug



Size: 2.97in x 1.26in x 1.87in

2-Pin Australian Plug



Size: 2.97in x 1.57in x 1.87in

UK Plug



Size: 2.97 x 1.92in x 1.87in

**OPTIONS**

- Plug Type
  - US Plug
  - EU Plug
  - SA Plug
  - UK Plug
- Output Connectors

**FEATURES**

- Universal Input Voltage Range
- Single Outputs
- Four Plug Types Available
- Optional Output Connectors Available
- Means of Patient Protection Design
- High Efficiency
- Short Circuit, Over Current, and Over Voltage Protection
- Level VI Compliant
- Risk Analysis Report
- Meets 60601-1-11 for Health Care Applications
- UL: ES60601-1, CSA:C22.2 No. 60601-1, CB: IEC60601-1, and EN60601-1 Safety Approvals

**DESCRIPTION**

The WMGMPU40 series of medical AC/DC power supplies offers up to 40 watts of output power in a compact wall mount package. This series consists of single output models with a universal input voltage range high efficiency. A few different options are available for this series including output connectors as well as plug type, which can either be US, EU, SA, or UK plug. Each model in this series is protected against short circuit, over current, and over voltage conditions, and all models (except the 6-8V version) are Level VI compliant. This series meets 60601-1-11 safety approvals for health care applications as well as UL; ES60601-1, CSA:C22.2 No.60601-1, CB: IEC60601-1, and EN60601-1 safety approvals.

**MODEL SELECTION TABLE**

Model Number <sup>(1)</sup>	Input Voltage Range	Output Voltage	Measured at Output	Output Current		Ripple & Noise	Load Regulation	Output Power	Avg. Efficiency <sup>(2)</sup>	DoE Level
				Min Load	Max Load					
WMGMPU40X-1	100~240VAC	5~6VDC	5VDC	4.17A	5A	150mV	±5%	25W	>84.30%	VI
WMGMPU40X-1-1		6~8VDC	7.5VDC	3.75A	5A	150mV	±5%	30W	>83.5%	V
WMGMPU40X-2		8~11VDC	9VDC	3.27A	4.5A	150mV	±5%	36W	>87.60%	VI
WMGMPU40X-3		11~13VDC	12VDC	3.07A	3.63A	200mV	±3%	40W	>87.60%	VI
WMGMPU40X-4		13~16VDC	15VDC	2.50A	3.07A	200mV	±3%	40W	>87.60%	VI
WMGMPU40X-5		16~21VDC	18VDC	1.90A	2.50A	200mV	±3%	40W	>87.60%	VI
WMGMPU40X-6		21~27VDC	24VDC	1.48A	1.90A	200mV	±2%	40W	>87.60%	VI
WMGMPU40X-7		27~33VDC	28VDC	1.21A	1.48A	300mV	±2%	40W	>87.60%	VI
WMGMPU40X-8	33~58VDC	48VDC	0.68A	1.21A	300mV	±2%	40W	>87.60%	VI	

**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.

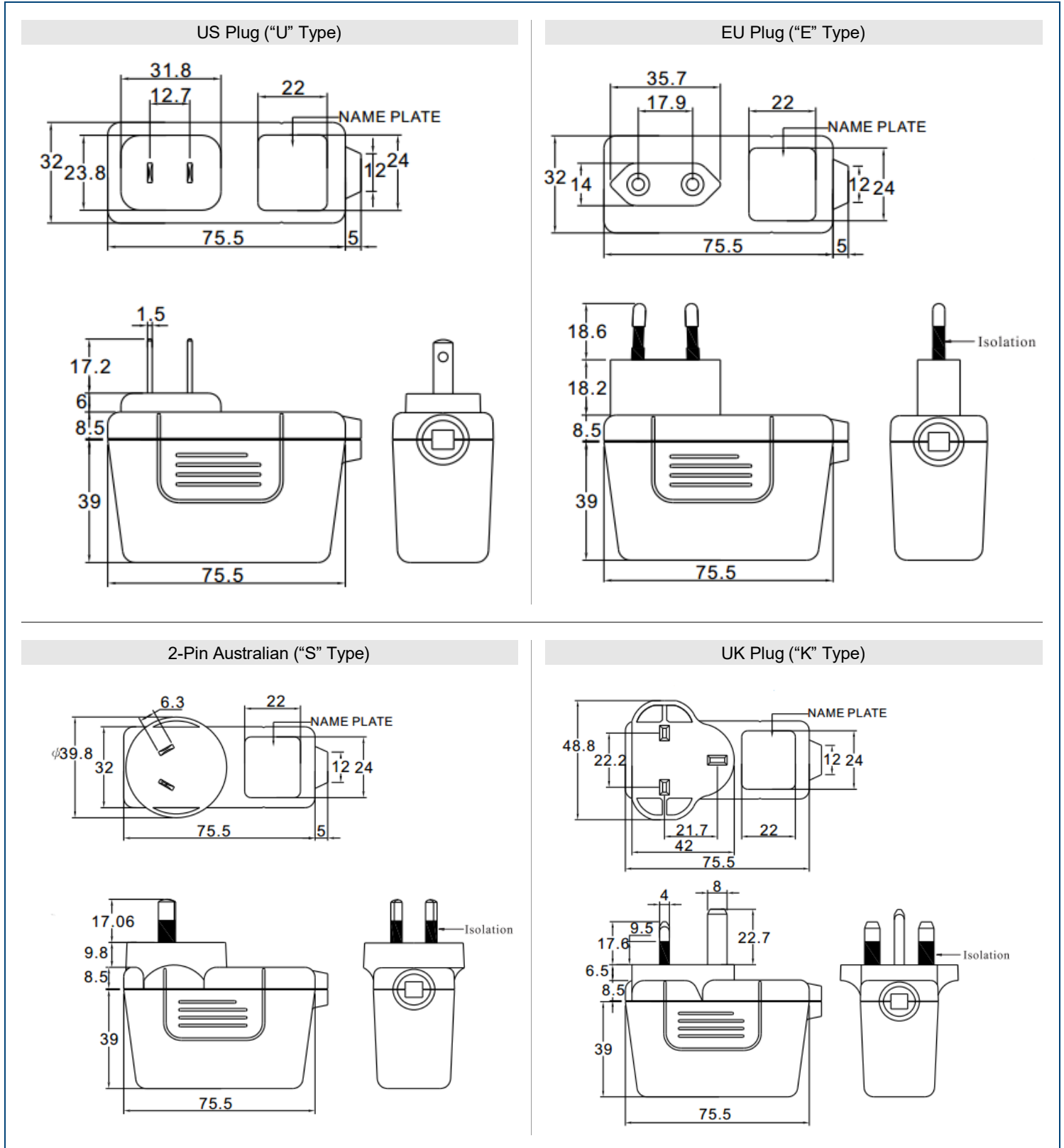
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range		100		240	VAC
Input Frequency		47		63	Hz
Input Current				1-0.6	A
Inrush Current	@115VAC, at 25°C, Cold Start		50		A
	@230VAC, at 25°C, Cold Start		90		A
Leakage Current	@240VAC/50Hz			0.1	mA
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage			See Table		
Line Regulation	Max for any input voltage change between input voltage range		±1		%
Load Regulation			See Table		
Output Power			See Table		
Output Current			See Table		
Ripple & Noise			See Table		
Transient Response	Max. excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change				
Set-Up Time	@Full Load		1000		mS
Hold Up Time	@Full Load		10		mS
Rise Time	@Full Load		50		mS
Temperature Coefficient	All outputs			±0.04	%/°C
<b>PROTECTION</b>					
Short Circuit Protection	Hiccup Mode		Automatic Recovery		
Over Current Protection	Hiccup Mode, Automatic Recovery		Rated Output Current >110%		
Over Voltage Protection	Protected by Zener Diode		Rated Output Voltage 110~140%		
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature		0		40	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-Condensing	5		95	%
Derating	Derated from 100% at +40°C linearly to 70% at 50°C				
MTBF	@Full Load, 25°C Ambient	100,000			Hours
<b>GENERAL SPECIFICATIONS</b>					
Efficiency			See Table		
Withstand Voltage	From Input to Output		5656		VDC
Insulation Resistance	From Input to Output	50			MΩ
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		Approx. 6~6.70oz (170~190g)			
Dimensions (L x W x H)	US and EU Plug	2.97in x 1.26in x 1.87in (75.5mm x 32mm x 47.5mm)			
	SA Plug	2.97in x 1.57in x 1.87in (75.5mm x 39.8mm x 47.5mm)			
	UK Plug	2.97in x 1.92in x 1.87in (75.5mm x 48.8mm x 47.5mm)			
<b>SAFETY CHARACTERISTICS</b>					
Safety Approvals		UL: ES60601-1 <sup>(6)</sup> CSA: C22.2. NO.60601-1 CB: IEC60601-1 EN: EN60601-1			
EMC		CE: EN60601-1-2:2007 FCC Part 15/Part 18			
					Class B Subpart B

**NOTES**

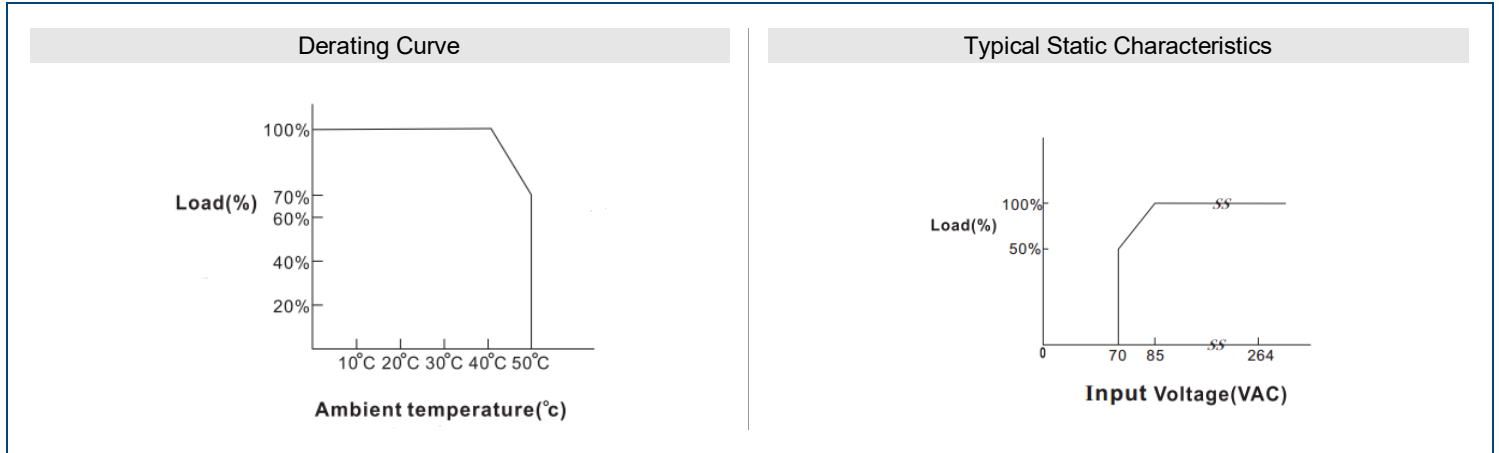
- "X" in model number indicates plug type. "X" can either be "U" for US plug, "E" for EU plug, "S" for 2-pin Australian plug, or "K" for UK plug.
- Avg. efficiency averages the efficiency at 25, 50, 75, and 100% of max. rated output current.
- Standard Output cables:  
 5~6V: UL1571, 14AWG, 1M  
 6~16V: UL2468, 16AWG, 1M  
 16~58V: UL2468, 20AWG, 5FT
- Optional output connectors are available
- This product is Listed to applicable standards and requirements by UL.

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

MECHANICAL DRAWINGS



## CHARACTERISTIC CURVES



## 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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