

U Type



Size: 2.97in x 1.26in x 1.87in

E Type



Size: 2.97in x 1.26in x 1.87in

SA Type



Size: 2.97in x 1.57in x 1.87in

BS Type



Size: 2.97in x 1.92in x 1.87in

OPTIONS

- Output Connector
- Output Voltage
- Plug Type

FEATURES

- Universal Input Voltage of 100~240VAC
- Meets EISA 2007/DoE (VI) & EU ErP/CoC (5)
- Single Output
- Optional Output Connectors Available
- Output Voltages Ranging from 5~58VDC
- Maximum Output Power of 25 Watts
- Short Circuit, Over Voltage, and Over Current Protection
- Low Leakage Current: <0.25mA
- American, European, 2-Pin Australian, and UK Plug Types Available
- UL60950-1, CSA C22.2, IEC 60950-1, EN60950-1, and J60950-1 Safety Approvals

DESCRIPTION

The WMGPSU25 series of AC DC wall mount power supplies offers up to 25 watts of continuous output power. This series consists of single output models with a universal input voltage range of 100~240VAC and output voltages ranging from 5~58VDC. Four different plugs are available to choose from: American, European, 2-Pin Australian, and UK types. Optional output connectors are also available. Each model is Efficiency Level VI compliant, and each model has short circuit, over voltage, and over current protection. Each model also has UL60950-1, CSA C22.2, IEC 60950-1, EN60950-1, and J60950-1 safety approvals. Please call factory for ordering details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	No Load Power Consumption	Output Power	Measured at Output	Efficiency ⁽²⁾	
								DoE (VI)	CoC (5)
WMGPSU25x-1	100~240VAC	5~6VDC	4~3.33A	100mV	<0.075W	20W	5	83.08%	83%
WMGPSU25x1-1	100~240VAC	6~8VDC	3.66~2.75A	100mV	<0.075W	22W	7.5	85.86%	86.41%
WMGPSU25x-2	100~240VAC	8~11VDC	3.125~2.27A	100mV	<0.075W	25W	9	86.35%	86.97%
WMGPSU25x-3	100~240VAC	11~13VDC	2.27~1.92A	120mV	<0.075W	25W	12	86.35%	86.97%
WMGPSU25x-4	100~240VAC	13~16VDC	1.92~1.56A	120mV	<0.075W	25W	15	86.35%	86.97%
WMGPSU25x-5	100~240VAC	16~21VDC	1.56~1.19A	180mV	<0.075W	25W	18	86.35%	86.97%
WMGPSU25x-6	100~240VAC	21~27VDC	1.19~0.926A	180mV	<0.075W	25W	24	86.35%	86.97%
WMGPSU25x-7	100~240VAC	27~33VDC	0.926~0.757A	240mV	<0.075W	25W	30	86.35%	86.97%
WMGPSU25x-8	100~240VAC	33~58VDC	0.757~0.43A	240mV	<0.075W	25W	48	86.35%	86.97%

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.

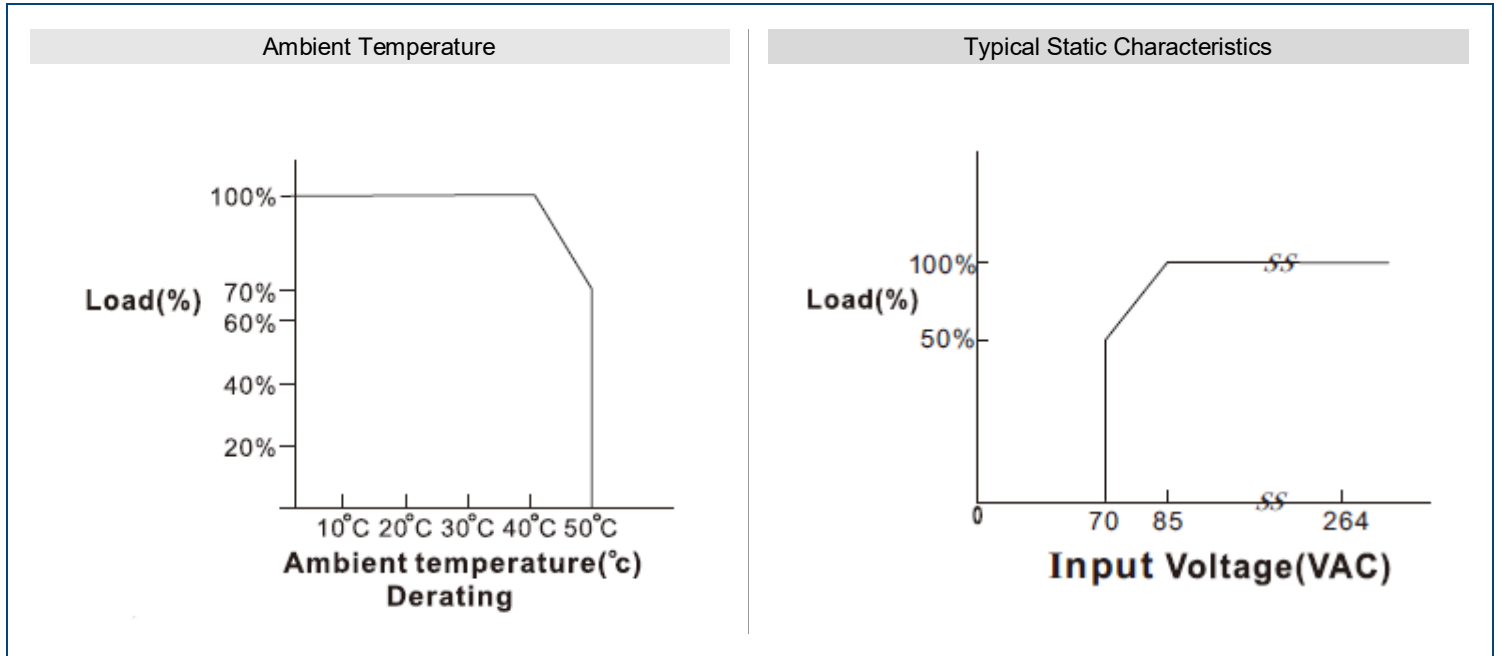
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		47		63	Hz
Input Current				0.65	A
Inrush Current	@115VAC at 25°C cold start		65		A
	@230VAC at 25°C cold start		95		A
Leakage Current	@240VAC/50Hz			0.25	mA
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	For any input voltage change between input voltage range			±1	%
Load Regulation	Variations from minimum to maximum output current.		±5		%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (20MHz bandwidth)		See Table			
Transient Response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change				
Setup 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
PROTECTION					
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	%
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	See derating curve	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 at 25°C ambient	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Insulation Resistance	From Input to Output	50			MΩ
Withstand Voltage	From Input to Output		4242		VDC
PHYSICAL SPECIFICATIONS					
Weight		5.29~6oz (150-170g)			
Dimensions (L x W x H)	U Type, E Type	2.97in x 1.26in x 1.87in (75.5mm x 32mm x 39mm)			
	SA Type	2.97in x 1.57in x 1.87in (75.5mm x 39.8mm x 39mm)			
	BS Type	2.97in x 1.92in x 1.87in (75.5mm x 48.8mm x 39mm)			
SAFETY & EMC CHARACTERISTICS					
Safety Approvals		UL60950-1 CSA C22.2 IEC 60950-1 EN60950-1			
EMC		CE: EN55022/EN55024 FCC Part15			
		Class B			

NOTES

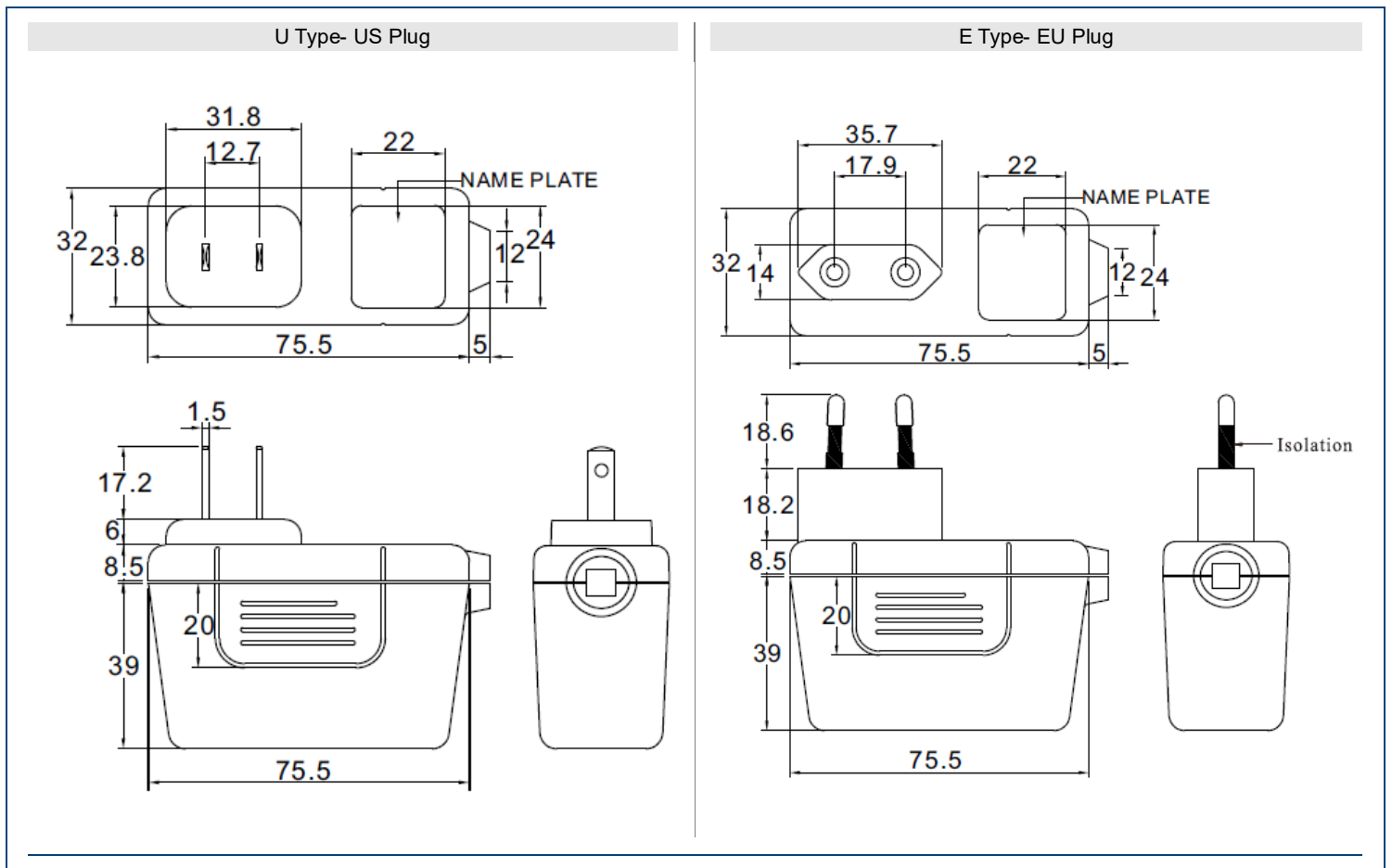
- (1) "x" in model name indicates plug type. "U"=U Type= US Plug, "E"=E Type= EU plug, "SA"=SA Type= Aus Plug, "BS"=BS Type=UK Plug.
- (2) Average Efficiency 25, 50, 75, 100% load
- (3) Optional Output Connectors available. Please call factory for ordering details.
- (4) Standard Output Cable:
 5~13V: 16AWG/UL1571/1M
 13~21V: 18AWG/UL2468/6FT
 21~58V: 20AWG/UL2468/6FT
- (5) This product is Listed to applicable standards and requirements by UL.

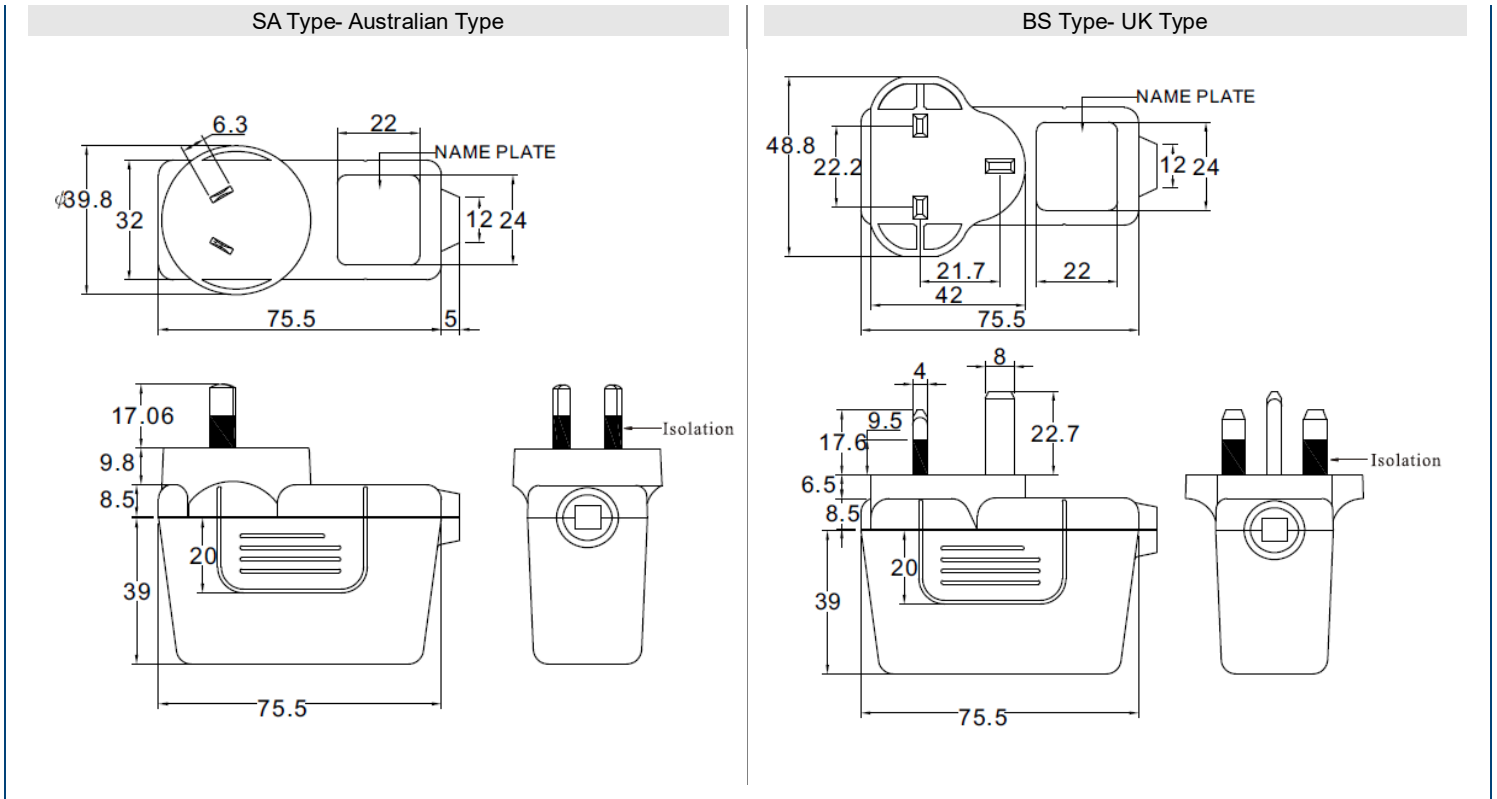
*Due to advances in technology, specifications subject to change without notice.

DERATING CURVES



MECHANICAL DRAWINGS





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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