

U Type



Size: 2.81 x 1.26 x 1.48in

E Type



Size: 2.81 x 1.26 x 1.48in

SA Type



Size: 2.81 x 1.57 x 1.48in

BS Type



Size: 2.81 x 1.92 x 1.48in



OPTIONS

- Output Connectors
- Output Voltage
- Plug Type

FEATURES

- Universal Input Voltage Range of 100~240VAC
- Meets Efficiency Level VI
- Single Output
- Optional Output Connectors Available
- Short Circuit, Over Voltage, and Over Current Protection
- Low Leakage Current <0.1mA
- Optional Plug Types Available: American, European, 2-Pin Australian, and UK Types
- UL60950-1; CSA C22.2, EN60950-1; IEC60950-1, and J60950 Safety Approvals

DESCRIPTION

The WMGPSU18 series of AC DC wall mount power supplies offers up to 18 watts of continuous output power in a compact package. This series consists of single output models that have a universal input voltage range of 100~240VAC and output voltages ranging from 5VDC to 58VDC. Each model is protected against short circuit, over voltage, and over current conditions and all models are Efficiency Level VI compliant. Four different plug types are available for this series: American type, European type, 2-pin Australian type, and UK plug types. This series also has UL60950-1; CSA C22.2, EN60950-1; IEC60950-1, and J60950 safety approvals. Please call factory for order details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage ⁽²⁾	Output Current	Ripple & Noise	No Load Power Consumption	Output Power	Measured At Output	Efficiency Level	Efficiency ⁽³⁾	
									DoE(VI)	CoC (5)
WMGPSU18x-1	100~240VAC	5~6VDC	3.00~2.50A	80mV	<0.075W	15W	5	Level VI	81.39%	81.84%
WMGPSU18x-2	100~240VAC	8~11VDC	2.25~1.64A	100mV	<0.075W	18.04W	9	Level VI	85%	85.45%
WMGPSU18x-3	100~240VAC	11~13VDC	1.64~1.38A	120mV	<0.075W	18.04W	12	Level VI	85%	85.45%
WMGPSU18x-4	100~240VAC	13~16VDC	1.38~1.13A	150mV	<0.075W	18.08W	15	Level VI	85%	85.45%
WMGPSU18x-5	100~240VAC	16~21VDC	1.13~0.86	150mV	<0.075W	18.08W	18	Level VI	85%	85.45%
WMGPSU18x-6	100~240VAC	21~27VDC	0.86~0.67A	150mV	<0.075W	18.09W	24	Level VI	85%	85.45%
WMGPSU18x-7	100~240VAC	27~33VDC	0.67~0.55A	240mV	<0.075W	18.15W	28	Level VI	85%	85.45%
WMGPSU18x-8	100~240VAC	33~58VDC	0.55~0.32A	240mV	<0.075W	18.56W	48	Level VI	85%	85.45%

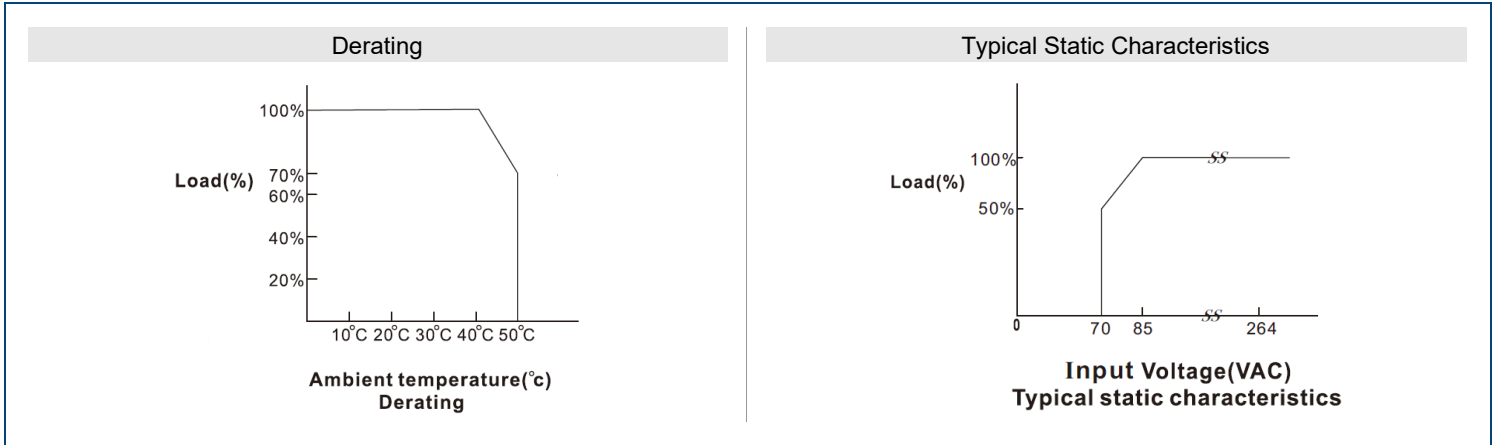
SPECIFICATIONS					
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.					
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		47		63	Hz
Input Current		0.45		0.2	A
Inrush Current	@115VAC at 25°C Cold Start		50		A
	@230VAC at 25°C Cold Start		90		
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	5~27VDC	±5		%
		27~58VDC	±3		
Output Power		See Table			
Output Current		See Table			
Ripple & Noise		See Table			
Transient Response Recovery Time	Maximum 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
PROTECTION					
Short Circuit Protection	Hiccup mode	Auto-Recovery			
Over Current Protection	Hiccup mode, Automatic Recovery				
	Rated Output Voltage	110			%
Over Voltage Protection	Protected by Zener diode				
	Rated Output Voltage	110		140	%
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%RH
Derating	Derated from 100% at 40°C linearly to 70% at 50°C				
MTBF	@Full Load at 25°C ambient	100,000			hours
Efficiency		See Table			
Insulation Resistance	From Input to Output	50			MΩ
Withstand Voltage	From Input to Output		4242		VDC
Leakage Current	@240VAC/50Hz			0.1	mA
PHYSICAL SPECIFICATIONS					
Weight		4.94~5.64oz (140~160g)			
Dimensions (L x W x H)	U Type, E Type	2.97 x 1.26 x 1.48in (75.5 x 32 x 37.5mm)			
	SA Type	2.97 x 1.57 x 1.48in (75.5 x 39.8 x 37.5mm)			
	BS Type	2.97 x 1.92 x 1.48in (75.5 x 48.8 x 37.5mm)			
SAFETY					
Safety Approvals	UL60950-1 ⁽⁵⁾ ; CSA C22.2, EN60950-1, IEC60950-1, J60950				
EMI	CE: Emission: EN55022; EN61000-3-2,3/Immunity: IEC61000-4-2,3,4,5,6,11 FCC 47 CFR Part 15 Subpart B				

NOTES

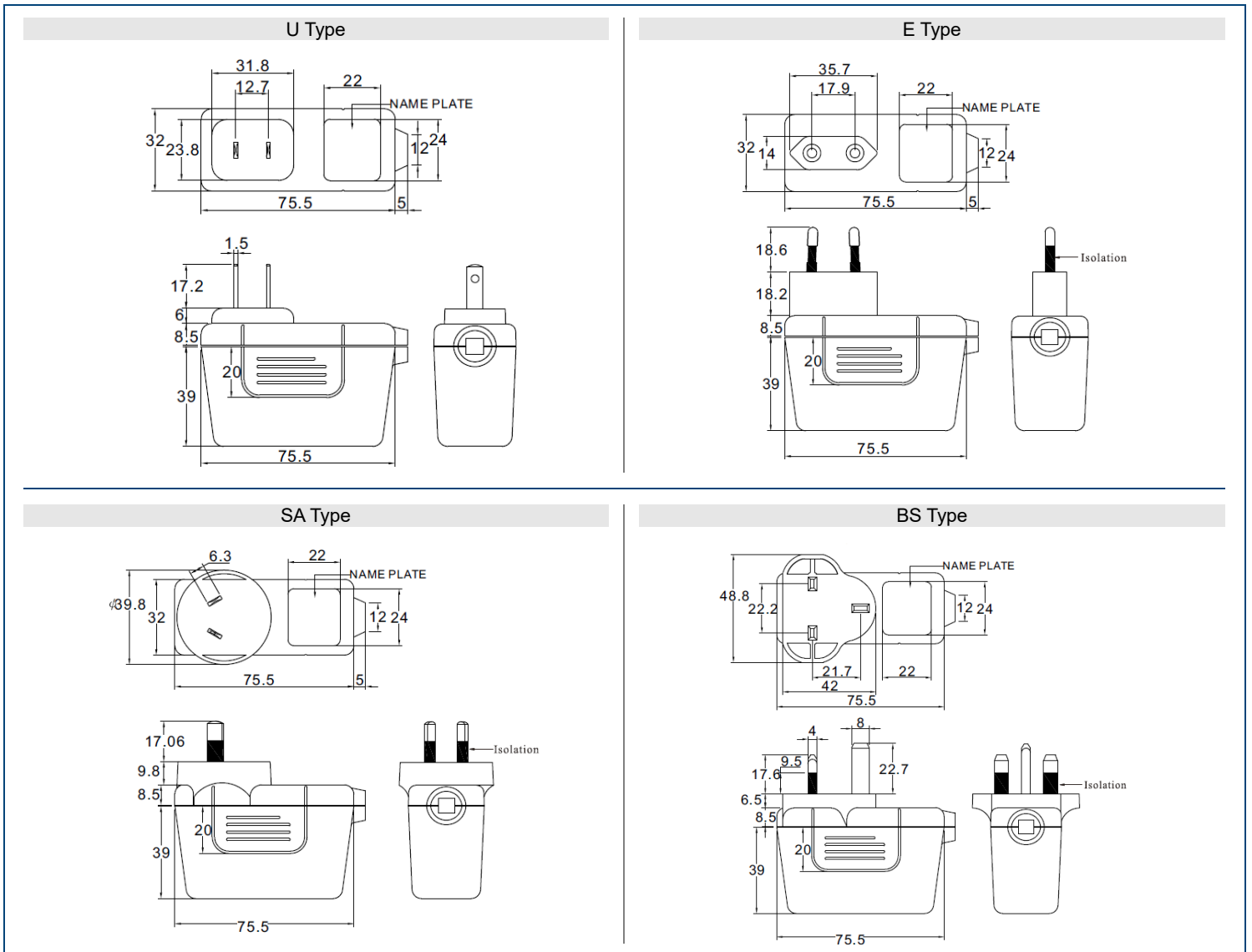
- (1) The "x" in each model number represents the plug type available: "U"= U Type= American plug, "E"= E type= European plug, "SA"= 2-Pin Australian plug, "BS"= BS Type= UK plug.
- (2) Output voltage can be set anywhere in this range.
- (3) Average efficiency: Averages the efficiency at 25, 50, 75, 100% of max. rated output current.
- (4) Standard Output Cables:
5~11V: UL1571, 16AWG, 1M
11~13V: UL2468, 18AWG, 1M
13~58V: UL2468, 22AWG 5FT
- (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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