

U Type



Size: 3.17 x 1.54 x 1.6in

E Type



Size: 3.17 x 1.54 x 1.6in

SA Type



Size: 3.17 x 1.61 x 1.6in

BS Type



Size: 3.17 x 1.94 x 1.6in

KR Type



Size: 3.17 x 1.54 x 1.6in

AR Type



Size: 3.17 x 1.61 x 1.6in



OPTIONS

- Output Connector
- Output Voltage
- Plug Type

FEATURES

- Universal Input Voltage of 100~240VAC
- Output Voltages Ranging from 5~58VDC
- Efficiency Level VI Compliant
- Single Output
- Optional Output Connectors Available
- Six Different Interchangeable Plugs Available
- Over Voltage, Over Current, and Short Circuit Protection
- UL60950-1; CSA C22.2, EN60950-1, IEC60950-1, and J60950 Safety Approvals
- Low Leakage Current of <0.1mA

DESCRIPTION

The WMIGPSU18 series of AC DC interchangeable wall mount power supplies offers up to 18 watts of continuous output power. This series consists of single output models with output voltages ranging from 5 to 58VDC and a universal input voltage of 100~240VAC. Each model has over voltage, over current, and short circuit protection and all models are efficiency level VI compliant. Six different interchangeable plugs are available for this series: American type, European type, 2-Pin Australian type, UK type, Korean type, and Argentina type. Optional output connectors are also available for this series. 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 Level	Efficiency ⁽²⁾	
									DoE (VI)	CoC (5)
WMIGPSU18U-1	100~240VAC	5~6VDC	3.00~2.50A	80mV	<0.075W	15W	5	Level VI	81.39%	81.84%
WMIGPSU18U-2		8~11VDC	2.25~1.64A	100mV		18.04W	9	Level VI	85%	85.45%
WMIGPSU18U-3		11~13VDC	1.64~1.38A	120mV		18.04W	12	Level VI	85%	85.45%
WMIGPSU18U-4		13~16VDC	1.38~1.13A	150mV		18.08W	15	Level VI	85%	85.45%
WMIGPSU18U-5		16~21VDC	1.13~0.86A	150mV		18.08W	18	Level VI	85%	85.45%
WMIGPSU18U-6		21~27VDC	0.86~0.67A	150mV		18.09W	24	Level VI	85%	85.45%
WMIGPSU18U-7		27~33VDC	0.67~0.55A	240mV		18.15W	28	Level VI	85%	85.45%
WMIGPSU18U-8		33~58VDC	0.55~0.32	240mV		18.56W	48	Level VI	85%	85.45%

SPECIFICATIONS

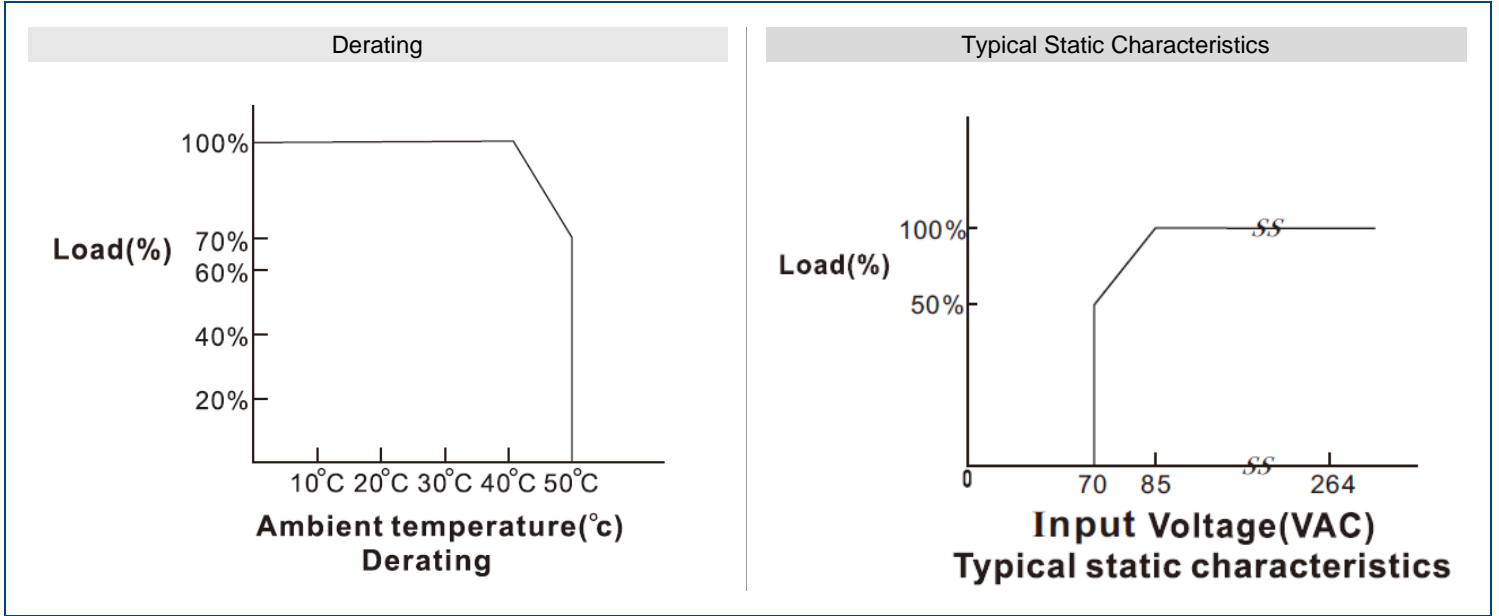
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

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
Leakage Current	@240VAC/50Hz			0.1	mA
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	5~27V	±5		%
		27~58V	±3		
Output Power		See Table			
Output Current		See Table			
Ripple & Noise		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				
Set-Up Time	@ Full Load		3000		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	Rated Output Voltage	Protected by Zener diode			
		110		140	%
ENVIRONMENTAL SPECIFICATIONS					
Operating Case 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 at 25°C ambient	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Chart			
Insulation Resistance	From Input to Output	50			MΩ
Withstand Voltage	From Input to Output		4242		VDC
PHYSICAL SPECIFICATIONS					
Weight		4.94~5.64oz (140~160g)			
Dimensions (L x W x H)	U Type, E Type, KR Type	3.17 x 1.54 x 1.6in (80.5 x 39.1 x 40.7mm)			
	BS Type	3.17 x 1.94 x 1.6in (80.5 x 49.4 x 40.7mm)			
	SA Type, AR Type	3.14 x 1.61 x 1.6in (80.5 x 41 x 40.7mm)			
SAFETY & EMC CHARACTERISTICS					
Safety Approvals		UL60950-1; CSA C22.2 EN60950-1 IEC60950-1 J60950			
EMC		CE: Emission: EN55022: EN61000-3-2,3 Immunity: IEC61000-4-2,3,4,5,6,11 FCC 47 CFR Part 15 Subpart B			

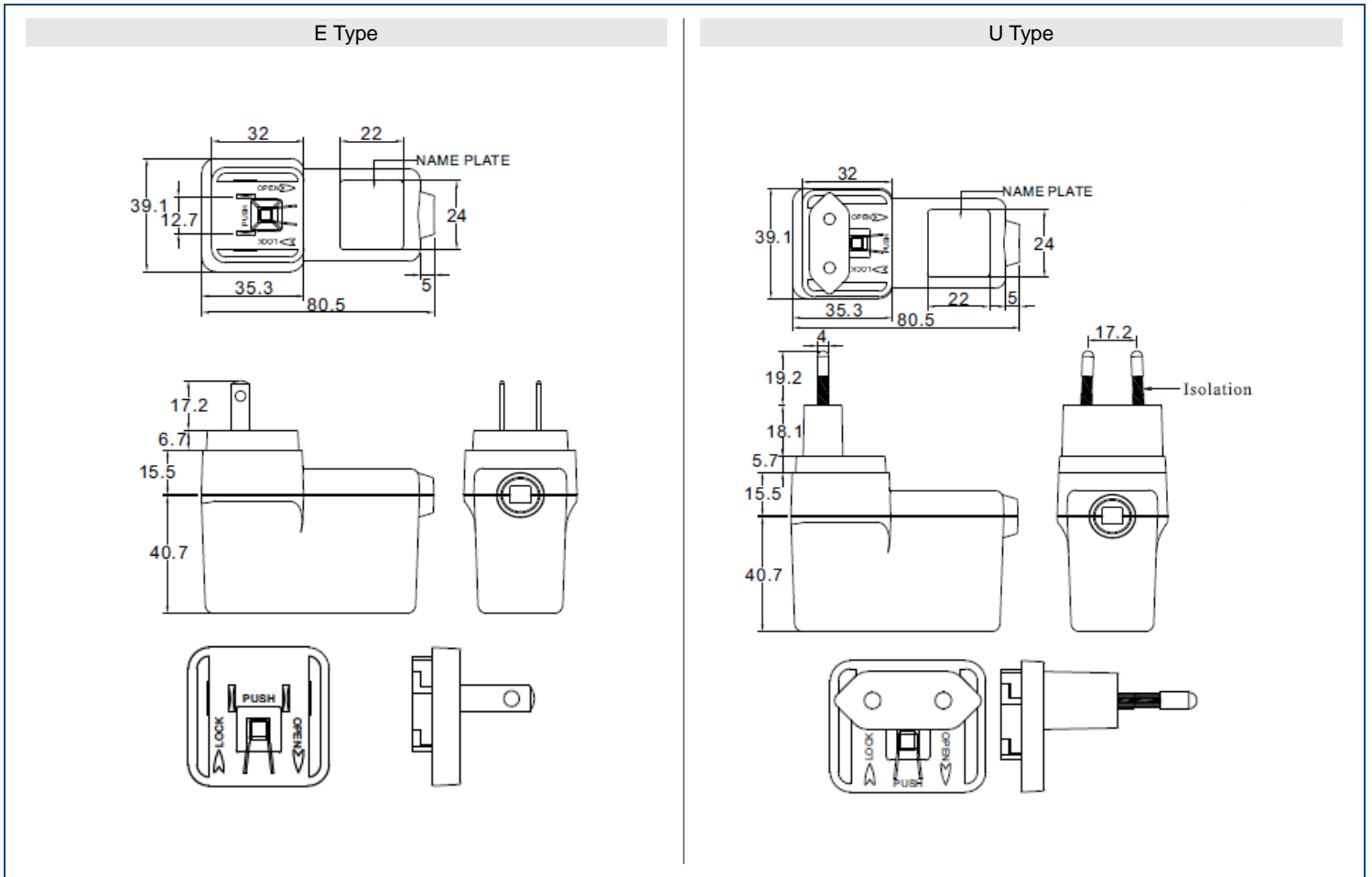
NOTES

- (1) "x" in each model name indicates the interchangeable plug type: "U"= U Type= American Plug, "E"= E Type= European Plug, "SA"=SA Type = 2-Pin Australian Plug, "BS"= BS Type = UK Plug, "KR"= KR Type = Korean Plug, "AR"= AR Type" = Argentina Plug. Please call factory for ordering details.
- (2) Averages the efficiency at 20, 50, 75, 100 of max. rated output current.
- (3) Standard Output Cables:
5~11V: UL1571, 16AWG, 1M
11~13V: UL2468, 18AWG, 1M
13~58V: UL2468, 22AWG 5FT

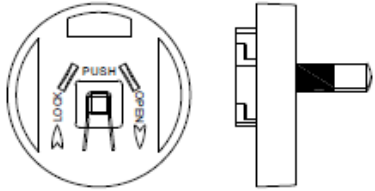
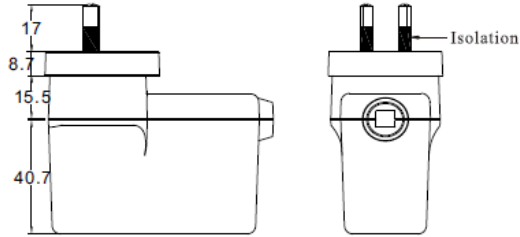
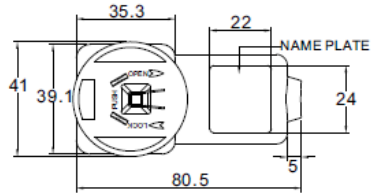
DERATING CURVES



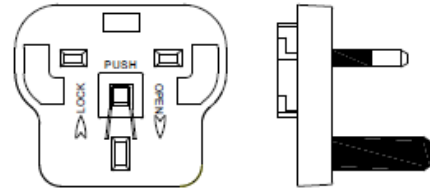
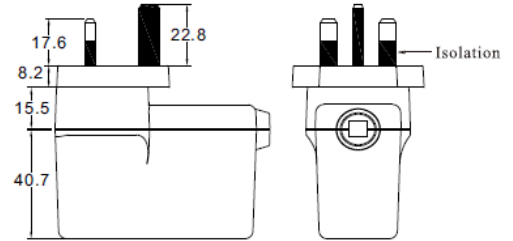
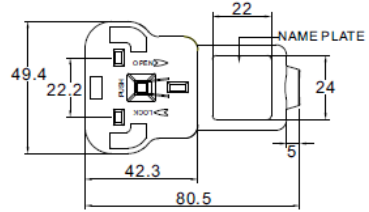
MECHANICAL DRAWINGS



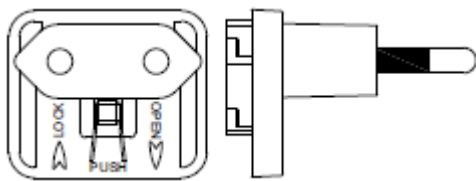
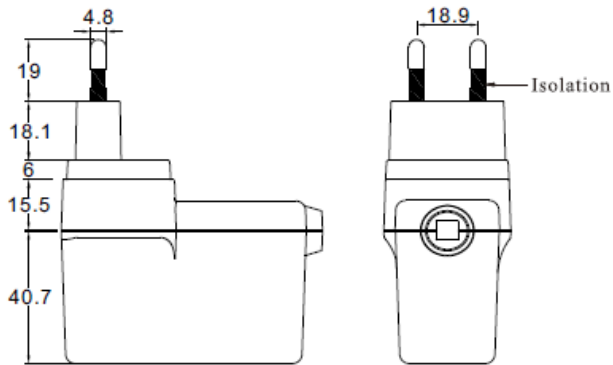
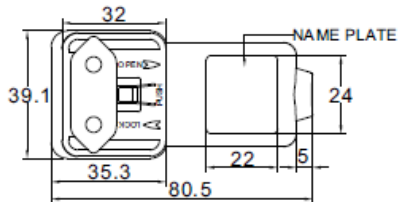
SA Type



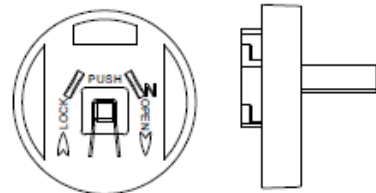
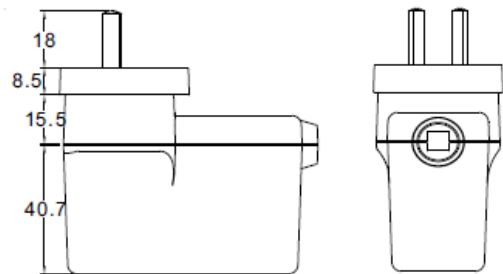
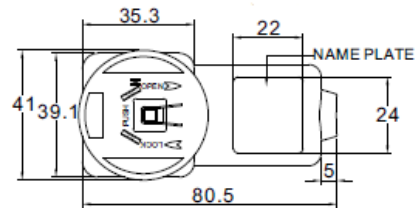
BS Type



KR Type



AR Type



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 ISO9001-2008 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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