

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 | 0.55~0.32A | 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.

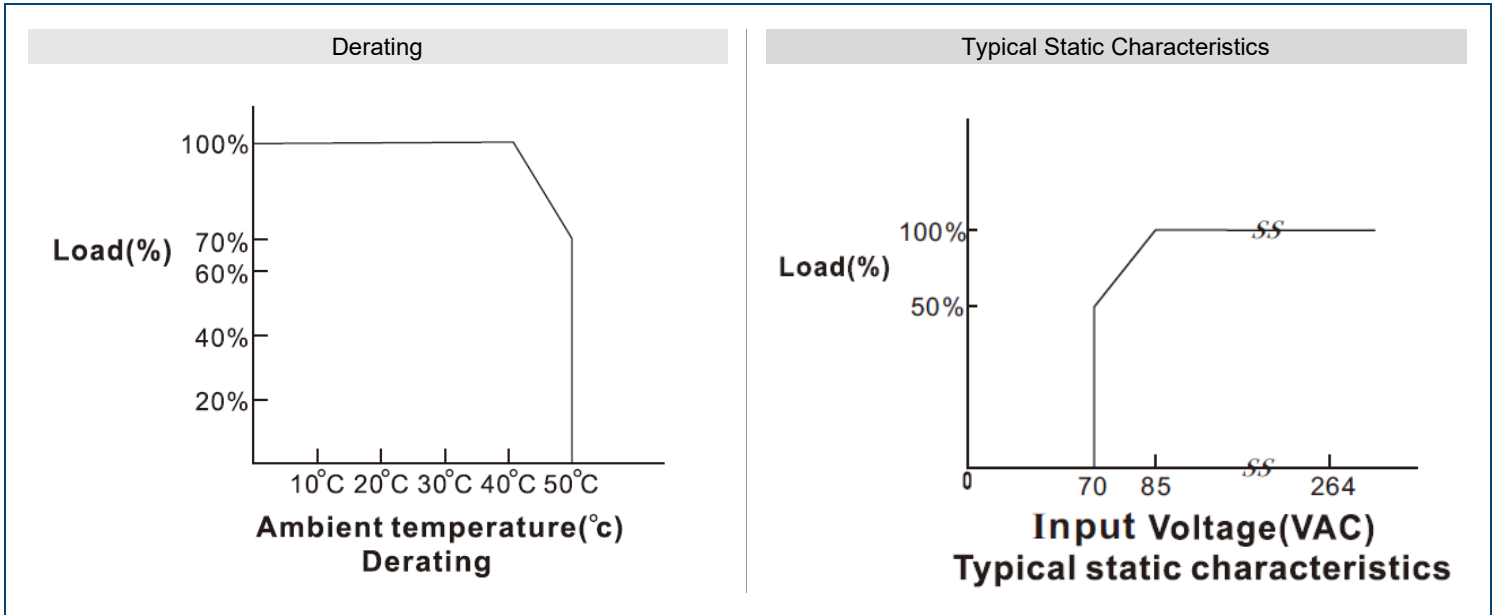
| SPECIFICATION | TEST CONDITIONS | Min | Typ | Max | Unit |
|---|---|---|------|-------|-------|
| INPUT SPECIFICATIONS | | | | | |
| Input Voltage Range | | 100 | | 240 | VAC |
| Input Frequency | | 47 | | 63 | Hz |
| Input Current | | 0.45 | | 0.2 | A |
| Leakage Current | @240VAC/50Hz | | | 0.1 | 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 | | Protected by Zener diode | | | |
| | Rated Output Voltage | 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 ⁽⁴⁾ ; 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

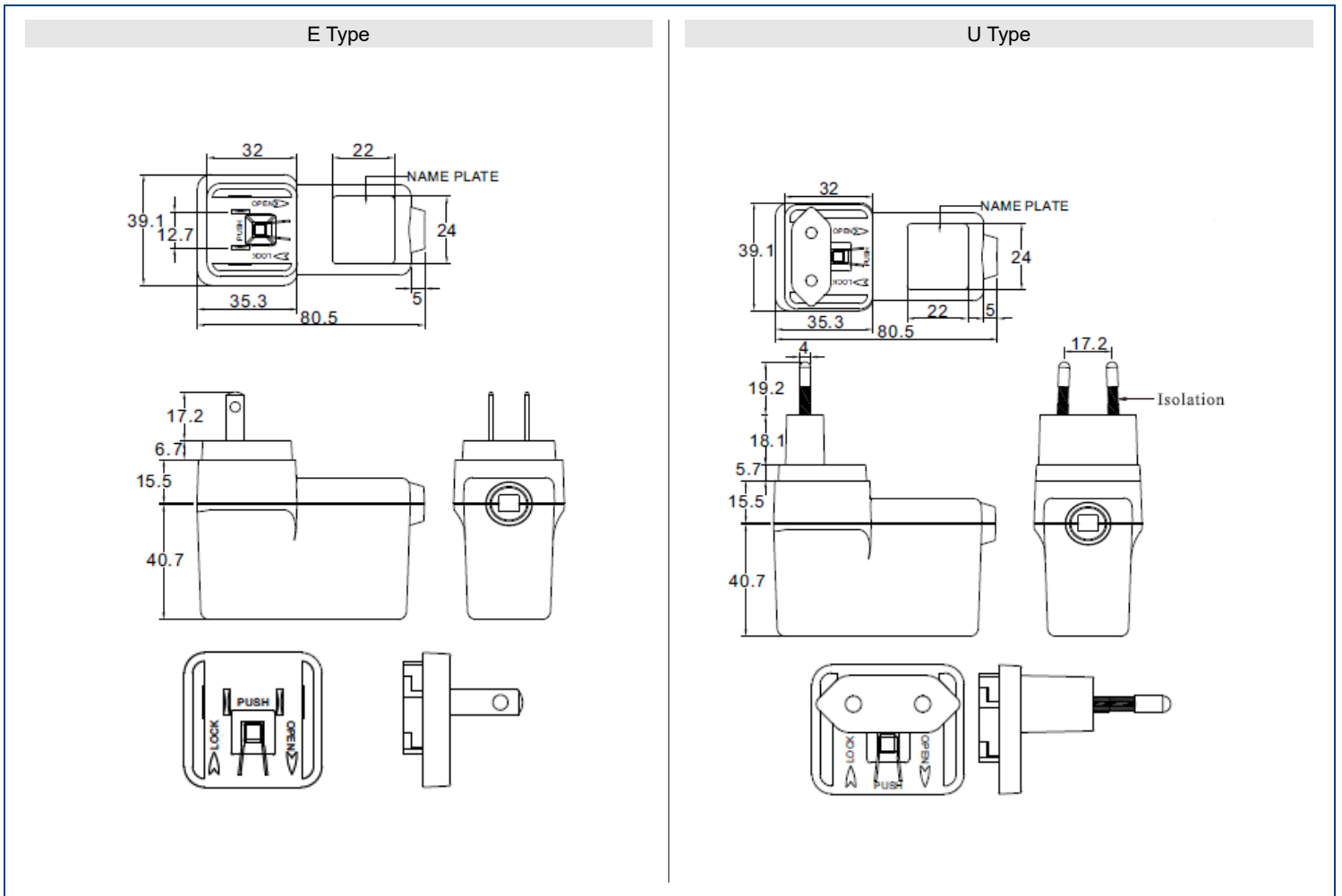
- (1) "x" in each model name indicates the interchangeable plug type: "U"= U Type= American Plug, "E"= E Type= European Plug, "SA"=SA Type = 2-Pin Australian Plug, "BS"= BS Type = UK Plug, "KR"= KR Type = Korean Plug, "AR"= AR Type" = Argentina Plug. Please call factory for ordering details.
- (2) Averages 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
- (4) This product is Listed to applicable standards and requirements by UL.

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

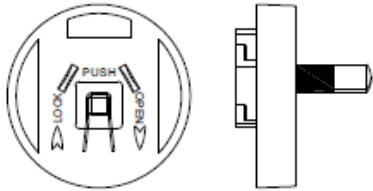
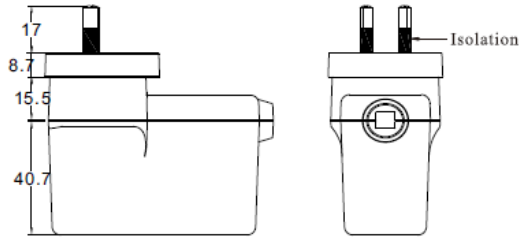
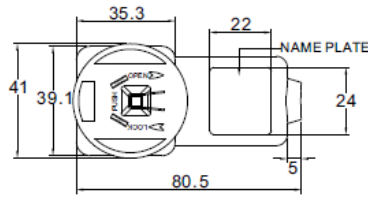
DERATING CURVES



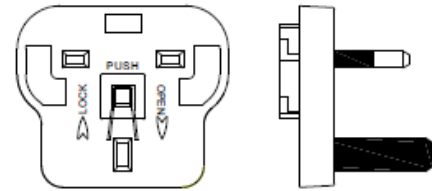
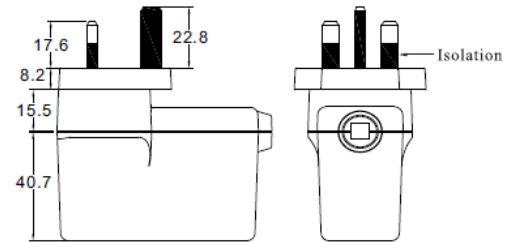
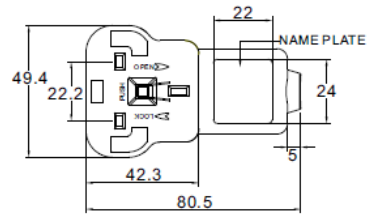
MECHANICAL DRAWINGS



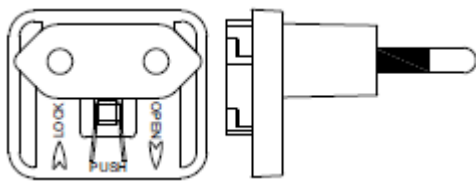
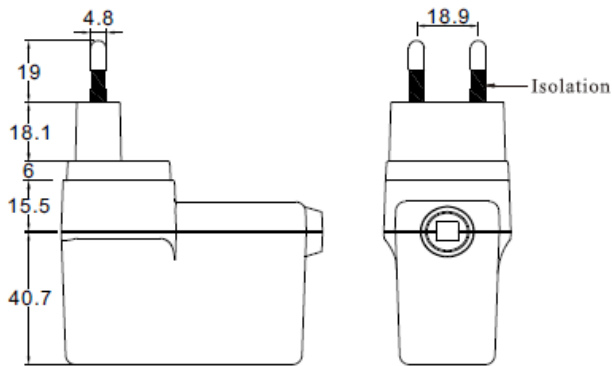
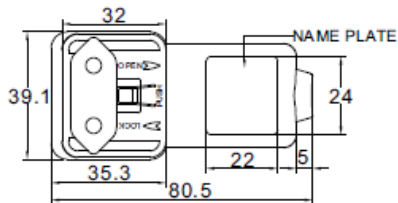
SA Type



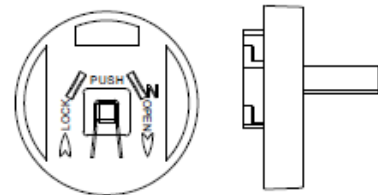
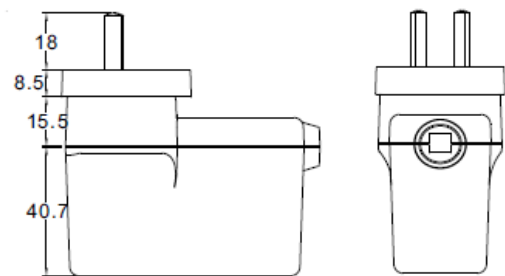
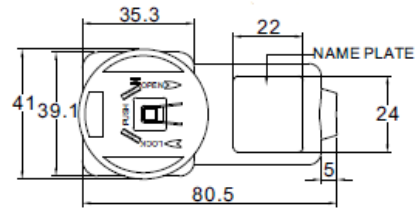
BS Type



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: 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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