

U Type: US Plug



Size: 2.97in x 1.26in x 1.87in

E Type: EU Plug



Size: 2.97in x 1.26in x 1.87in

SA Type: 2 Pin Aus Plug



Size: 2.97in x 1.57in x 1.87in

BS Type: UK Plug



Size: 2.97in x 1.92in x 1.87in



**OPTIONS**

- Plug Type
- Output Connector

**FEATURES**

- Universal Input Voltage Range of 100-240VAC
- Output Voltages Ranging from 5~58V
- 5~6, 8~58V Models Meet EISA 2007/DoE (VI) & ErP/CoC (5)
- Single Outputs
- Optional Plug Types Available: US, EU, 2 Pin Aus, and UK
- Optional Output Connectors Available
- Short Circuit, Over Voltage, and Over Current Protection
- UL60950-1, CSA C22.2, EN60950-1, IEC60950-1, and J60950 Safety Approvals
- Low Leakage Current
- CE Marked

**DESCRIPTION**

The WMGPSU40 series of AC DC wall mount power supplies provides up to 40 watts of output power in a compact package. This series consists of single output models with output voltages ranging from 5~48V and with an input voltage of 100~240VAC. Four different output plugs are also available for this series: US plug, EU Plug, 2-Pin Australian Plug, and UK Plug. All models are protected against short circuit, over voltage, and over current conditions and have UL60950-1, CSA C22.2, EN60950-1, IEC60950-1, and J60950 safety approvals. All models are Energy Level VI compliant. Please call factory for order details.

**MODEL SELECTION TABLE**

| Model Number <sup>(1)</sup> | Input Voltage Range | Output Voltage | Output Current | Max. Output Power | Ripple & Noise | Efficiency <sup>(2)</sup> |        | Efficiency Level (DoE/CoC) | No Load Power Consumption | Measured at Output |
|-----------------------------|---------------------|----------------|----------------|-------------------|----------------|---------------------------|--------|----------------------------|---------------------------|--------------------|
|                             |                     |                |                |                   |                | DoE                       | CoC    |                            |                           |                    |
| WMGPSU40x-1                 | 100~240VAC          | 5~6VDC         | 5~4.16A        | 25W               | 200mV          | 84.25%                    | 85%    | VI/5                       | <0.075W                   | 5VDC               |
| WMGSPU40x-1-1               | 100~240VAC          | 6~8VDC         | 5~3.75A        | 30W               | 200mV          | >83.5%                    | >83.5% | VI/4                       | <0.3W                     | 7.5VDC             |
| WMGPSU40x-2                 | 100~240VAC          | 8~11VDC        | 5~3.64A        | 40.04W            | 120mV          | 87.60%                    | 88.60% | VI/5                       | <0.075W                   | 9VDC               |
| WMGPSU40x-3                 | 100~240VAC          | 11~13VDC       | 3.64~3.08A     | 40.04W            | 130mV          | 87.60%                    | 88.60% | VI/5                       | <0.075W                   | 12VDC              |
| WMGPSU40x-4                 | 100~240VAC          | 13~16VDC       | 3.08~2.50A     | 40.04W            | 250mV          | 87.60%                    | 88.60% | VI/5                       | <0.075W                   | 15VDC              |
| WMGPSU40x-5                 | 100~240VAC          | 16~21VDC       | 2.50~1.90A     | 40W               | 250mV          | 87.60%                    | 88.60% | VI/5                       | <0.075W                   | 18VDC              |
| WMGPSU40x-6                 | 100~240VAC          | 21~27VDC       | 1.90~1.49A     | 40.23W            | 300mV          | 87.60%                    | 88.60% | VI/5                       | <0.075W                   | 24VDC              |
| WMGPSU40x-7                 | 100~240VAC          | 27~33VDC       | 1.49~1.22A     | 40.26W            | 300mV          | 87.60%                    | 88.60% | VI/5                       | <0.075W                   | 30VDC              |
| WMGPSU40x-8                 | 100~240VAC          | 33~58VDC       | 1.22~0.70A     | 40.6W             | 400mV          | 87.60%                    | 88.60% | VI/5                       | <0.075W                   | 48VDC              |

**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.

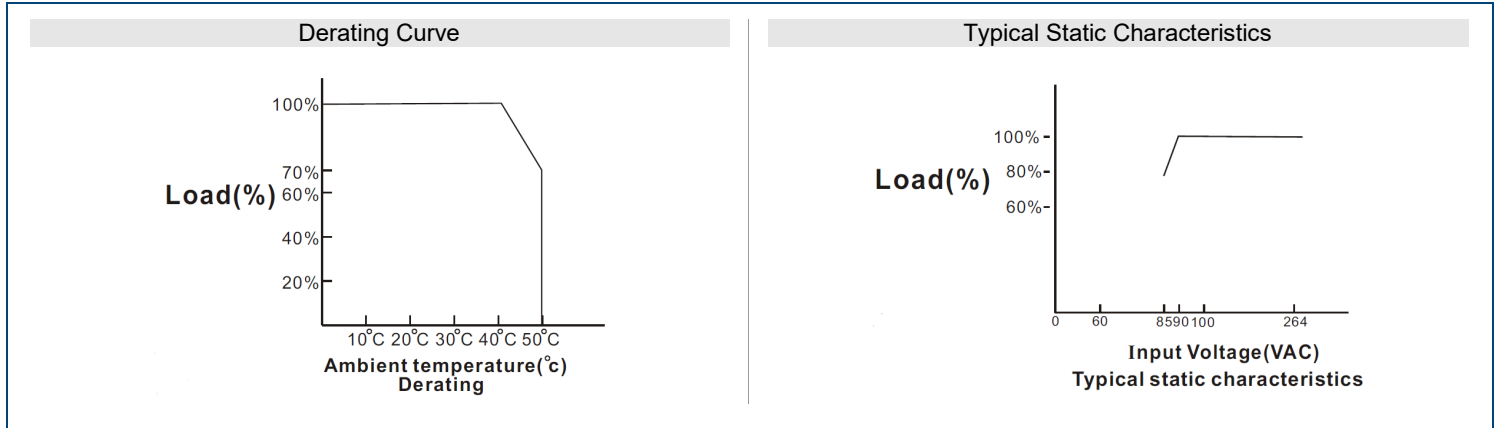
| SPECIFICATION                           | TEST CONDITIONS  | Min               | Typ  | Max  | Unit  |
|---|--|-------------------|------|--|-------|
| <b>INPUT SPECIFICATIONS</b>             |  |                   |      |  |       |
| Input Voltage Range                     |  | 100               |      | 240  | VAC   |
| Input Frequency                         |  | 50                |      | 60   | Hz    |
| Input Current                           |  |                   |      | 1  | A     |
| Leakage Current                         | @240VAC/50Hz   |                   |      | 0.25   | mA    |
| Inrush Current                          | @115VAC at 25°C cold start   |                   | 65   |  | A     |
|   | @230VAC at 25°C cold start   |                   | 95   |  |       |
| <b>OUTPUT SPECIFICATIONS</b>            |  |                   |      |  |       |
| 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  | 6~8V Model        | ±5   |  | %     |
|   |  | 5~6, 8~58V Models | ±6   |  |       |
| 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 500µS after 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 Voltage   | 110               |      |  | %     |
| Over Voltage Protection                 | Protected by Zener diode   |                   |      |  |       |
|   | Rated Output Voltage   | 110               |      | 140  | %     |
| <b>ENVIRONMENTAL SPECIFICATIONS</b>     |  |                   |      |  |       |
| Operating Case 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, 25°C ambient temperature   | 100,000           |      |  | hours |
| <b>GENERAL SPECIFICATIONS</b>           |  |                   |      |  |       |
| Efficiency                              |  |                   |      | See Table  |       |
| Insulation Resistance                   | From Input to Output   | 50                |      |  | MΩ    |
| Withstand Voltage                       | From Input to Output   |                   | 4242 |  | VDC   |
| <b>PHYSICAL SPECIFICATIONS</b>          |  |                   |      |  |       |
| Weight                                  |  |                   |      | 6.0~6.7oz (170~190g)                                   |       |
| Dimensions (L x W x H)                  | U Type and E Type  |                   |      | 2.97in x 1.26in x 1.87in<br>(75.5mm x 32mm x 47.5mm)   |       |
|   | SA Type  |                   |      | 2.97in x 1.57in x 1.87in<br>(75.5mm x 39.8mm x 47.5mm) |       |
|   | BS Type  |                   |      | 2.97in x 1.92in x 1.87in<br>(75.5mm x 48.8mm x 47.5mm) |       |
| <b>SAFETY &amp; EMC CHARACTERISTICS</b> |  |                   |      |  |       |
| Safety Approvals                        | UL60950-1 <sup>(6)</sup> ; 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<br>FCC 47 CFR Part 15 Subpart B   |                   |      |  |       |

**NOTES**

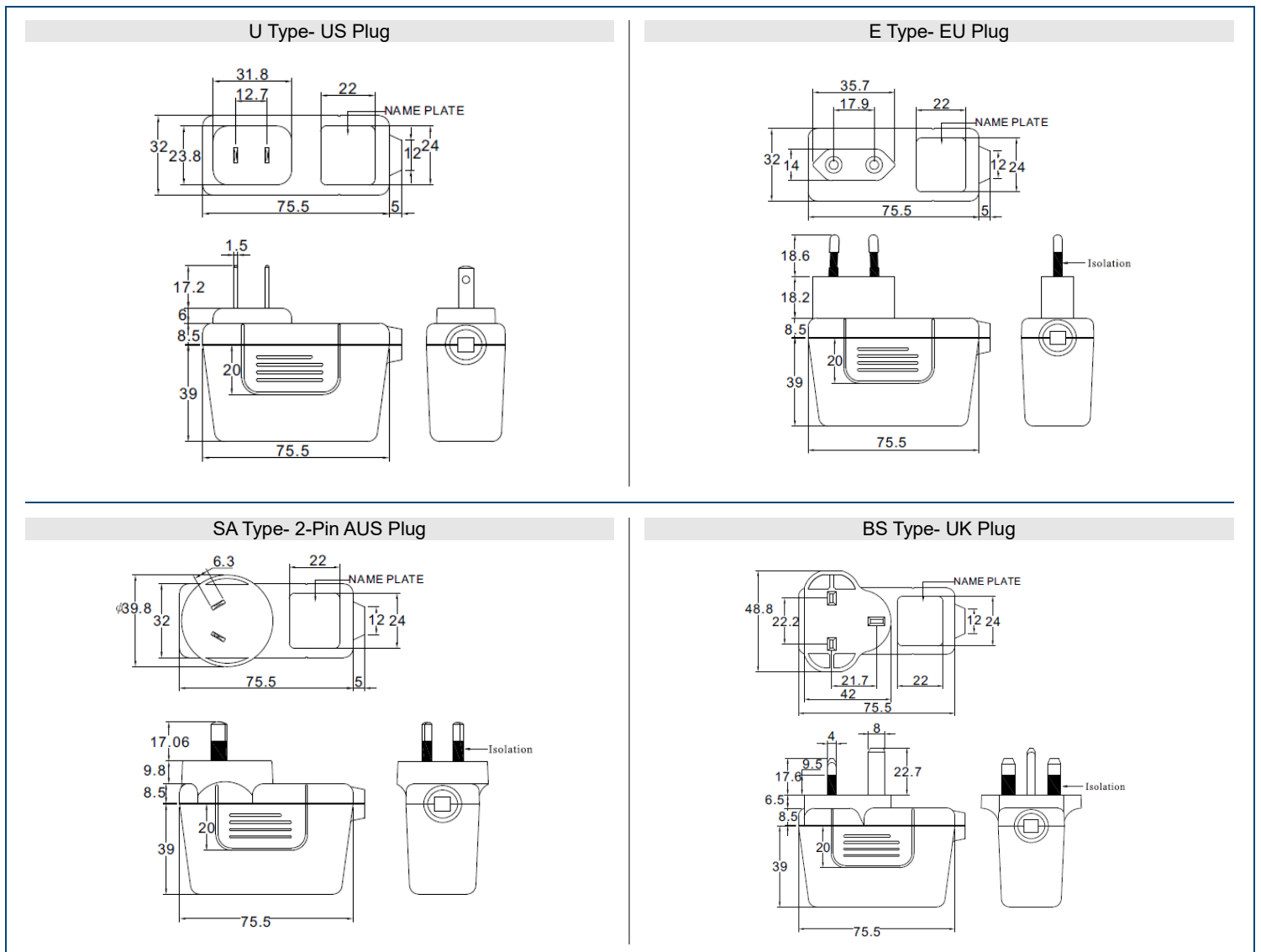
- (1) "x" in model number references the plug types available. "X" can either be; "U"= U Type= US Plug, "E"=E Type= EU Plug, "SA"= SA Type= 2-Pin AUS Plug, or "BS"= BS Type= UK Plug. Please call factory for order details.
- (2) Average efficiency at 25, 50, 75, 100% of max. rated output current.
- (3) Standard Output Cables:  
5~6V: UL1571, 14AWG, 1M  
6~8V: UL2468, 18AWG, 1M  
8~16V: UL2468, 16AWG, 1M  
16~58V: UL2468, 20AWG, 5FT
- (4) Optional output connectors available.
- (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



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**COMPANY INFORMATION**

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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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