

US Plug

EU Plug



Size: 2.81in x 1.34in x 1.97in (71.5mm x 34mm x 50mm)



FEATURES

- Universal Input Voltage Range of 100~240VAC
- Passes LPS
- US and EU Plug Available
- Optional Output Connectors Available
- High Efficiency & Reliability
- Over Voltage, Over Current, and Short Circuit Protection
- UL60950-1; CSA C22.2, EN60950-1, and IEC60950-1 Safety Approvals

DESCRIPTION

The WMGPSU15x-CC series of AC/DC wall mount power supplies offers up to 15 watts of output power in a 2.81" x 1.34" x 1.97" compact package. This series consists of single output models with a universal input voltage range of 100~240VAC as well high efficiency and reliability. Each model in this series has over voltage, over current, and short circuit protection as well as either a US or EU plug option. This series also has UL60950-1: CSA C22.2, EN60950-1, and IEC60950-1 safety approvals.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Measured at Output	Output Current		Ripple Max.	Load Regulation	Output Power	Efficiency
				Min Load	Max Load				
WMGPSU15X-1-CC	100~240VAC	5~6VDC	5.6	2.00A	2.40A	50mV	±10%	12W	>65%
WMGPSU15X-1-1-CC		6~8VDC	7.2	1.50A	2.00A	80mV	±5%	12W	>74%
WMGPSU15X-2-CC		8~11VDC	8.4	1.36A	1.80A	80mV	±5%	15W	>76%
WMGPSU15X-3-CC		11~13VDC	12	1.15A	1.36A	100mV	±5%	15W	>76%
WMGPSU15X-4-CC		13~16VDC	13.8	0.94A	1.15A	120mV	±3%	15W	>76%
WMGPSU15X-5-CC		16~21VDC	18	0.72A	0.94A	120mV	±3%	15W	>77%
WMGPSU15X-6-CC		21~27VDC	24	0.55A	0.72A	150mV	±3%	15W	>78%
WMGPSU15X-7-CC		27~33VDC	28.6	0.45A	0.55A	240mV	±2%	15W	>80%
WMGPSU15X-8-CC		33~48VDC	48	0.31A	0.45A	240mV	±2%	15W	>80%

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		50		60	Hz
Input Current				0.5	A
Inrush Current	@115VAC, 25°C, Cold Start		20		A
	@230VAC, 25°C, Cold Start		40		
Leakage Current	@240VAC/50Hz			0.25	mA
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	For any input voltage change between input voltage range		±0.5	±1	%
Load Regulation	Variations from minimum to maximum output current	See Table			
Output Power		See Table			
Output Current		See Table			
Ripple		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
No Load Power Consumption				0.5	W
PROTECTION					
Short Circuit Protection	Hiccup Mode	Automatic Recovery			
Over Current Protection		Automatic Recovery			
	Standard Series: Rated output current for primary-referenced direct drive	110			%
	Constant Current Series: Rated output current for secondary-reference direct drive	80		200	%
Over Voltage Protection		Protected by Zener Diode			

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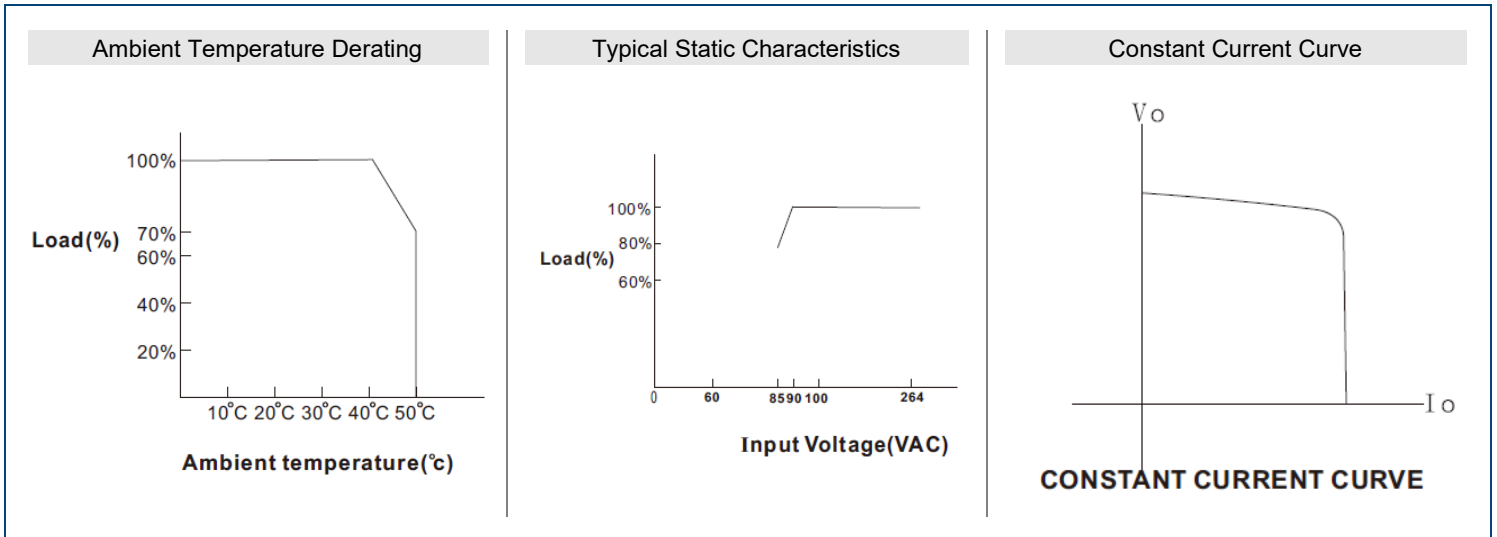
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%
Derating	Derated from 100% at +40°C linearly to 70% at 50°C				
MTBF	@Full Load, 25°C ambient	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Withstand Voltage	From Input to Output		4242		VDC
Insulation Resistance	From Input to Output	50			MΩ
PHYSICAL SPECIFICATIONS					
Weight		2.47~5.29oz (70~150g)			
Dimensions (L x W x H)		2.81in x 1.34in x 1.97in (71.5mm x 34mm x 50mm)			
SAFETY CHARACTERISTICS					
Safety Approvals		UL60905-1 ⁽³⁾ ; CSA C22.2 EN60950-1 IEC60950-1			
EMC		CE: Emission: EN55022; EN61000-3-2, 3/ Immunity: IEC61000-4-2, 3, 4, 5, 6, 11 FCC 47 CFR Part 15 Subpart B. ICES-003 Issue 4 ANSI C63.4-2003			

NOTES

1. "X" in model number indicates plug type. "X" can either be "U" for American plug or "E" for European plug.
2. Optional output connectors are available.
3. This product is Listed to applicable standards and requirements by UL.

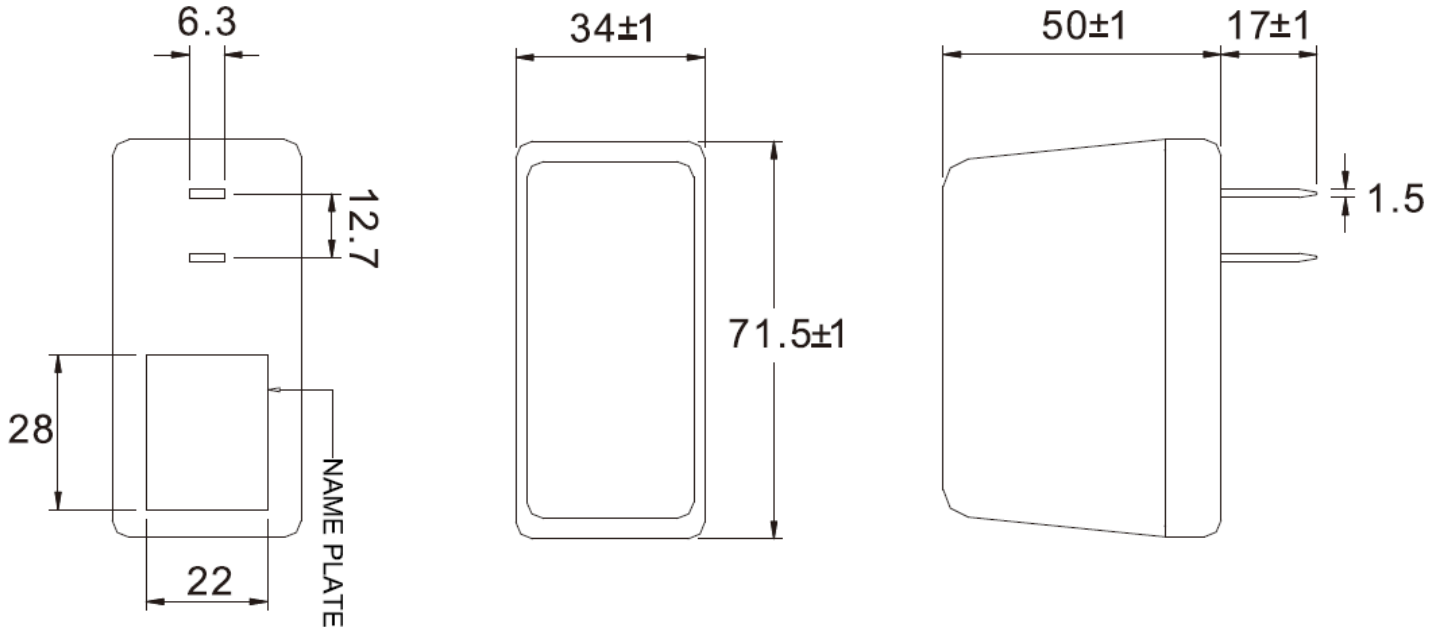
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES

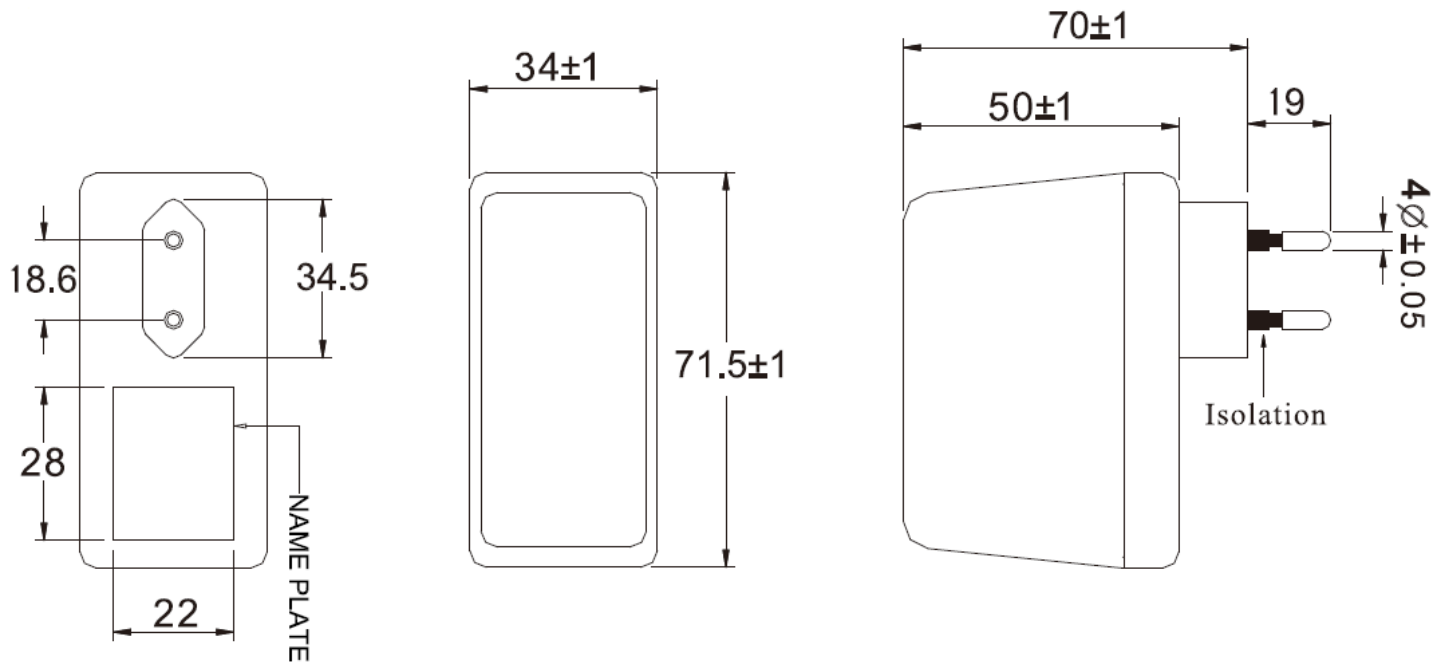


MECHANICAL DRAWINGS

American Plug



European Plug



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.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300
Toll Free: ☎ (888)597-9255
Fax: ☎ (603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

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