Size:
2.95 x 1.71 x 1.58 inches
75.0 x 43.5 x 40.2 mm

Weight:
7.05oz (200g)

AC Plug Types:
- Unites States ("U" Suffix)
- Europe ("E" Suffix)
- Australia ("A" Suffix")
- United Kingdom ("K" Suffix)

Applications:
- Home Healthcare Equipment
- Patient Monitors
- Blood Pressure Systems
- Portable Medical Devices
- ECG Machines

FEATURES

- Class II System
- RoHS Compliant
- Up to 25 Watts Output Power
- 85% High Efficiency
- Energy Star 2.0, Efficiency Level V
- 80-275VAC Input Voltage Range
- 100% Burn-In Tested
- Input to Output: 2MOPP
- Single Outputs Ranging from 3VDC to 55VDC
- -10°C to +70°C Operating Temperature Range
- Meets FCC Part-18 Class B & CISPR-11EN55011 Class B Emission Limits
- UL/cUL 3rd Edition Medical Approvals
- Interchangeable Plug Options: United States, Europe, Australia, & United Kingdom Types
- Optional Output Connectors Available

SAFETY APPROVALS

DESCRIPTION

The WMIHPU25 series of Class II medical AC/DC wall mount power supplies offers up to 25 watts of output power in a 2.95" x 1.71" x 1.58" package. This series consists of single output models ranging from 3VDC to 55VDC with an 80~275VAC input voltage range and a -10°C to +70°C operating temperature. This series meets FCC Part-18 Class B and CISPR-11 EN55011 Class B Emission Limits and has ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd edition) and CE safety approvals. All units are RoHS and Energy Star Level V compliant. Plugs come in United States ("U" suffix), Europe ("E" suffix), Australia ("A" suffix), and United Kingdom ("K" suffix) types. Plugs are sold separately so please contact factory for ordering details.

MODEL SELECTION TABLE

Model Number [1]	Input Voltage	Adjustable Voltage Range		Adjustable Current Range		Maximum Output Power	Ripple & Noise	Total Regulation	Efficiency	No Load Consumption
		Min	Max	Min	Max					
WMIHPU25-101x	80 ~ 275VAC	3 VDC	5 VDC	2.10 A	3.50 A	10.5W	66mVp-p	±5%	65%	0.2W
WMIHPU25-102x		5 VDC	6 VDC	2.75 A	3.30 A	16.5W	50mVp-p	±5%	80%	0.3W
WMIHPU25-103x		6 VDC	8 VDC	2.50 A	3.30 A	20W	70mVp-p	±5%	82%	0.3W
WMIHPU25-104x		8 VDC	11 VDC	2.00 A	2.75 A	22W	90mVp-p	±5%	83%	0.3W
WMIHPU25-105x		11 VDC	13 VDC	1.92 A	2.27 A	25W	100mVp-p	±5%	84%	0.3W
WMIHPU25-106x		13 VDC	16 VDC	1.56 A	1.92 A	25W	100mVp-p	±5%	85%	0.3W
WMIHPU25-107x		16 VDC	21 VDC	1.19 A	1.56 A	25W	100mVp-p	±5%	85%	0.3W
WMIHPU25-108x		21 VDC	27 VDC	0.92 A	1.19 A	25W	100mVp-p	±3%	86%	0.3W
WMIHPU25-109x		27 VDC	33 VDC	0.75 A	0.92 A	25W	100mVp-p	±3%	86%	0.3W
WMIHPU25-110x		33 VDC	40 VDC	0.62 A	0.75 A	25W	100mVp-p	±3%	86%	0.3W
WMIHPU25-111x		40 VDC	48 VDC	0.53 A	0.62 A	25W	100mVp-p	±3%	86%	0.3W
WMIHPU25-112x		48 VDC	55 VDC	0.45 A	0.53 A	25W	100mVp-p	±3%	86%	0.3W

NOTES

1. The "x" in the model number can be "U" for United States type plug; "E" for Europe type plug, "A" for Australia type plug, or "K" for United Kingdom type plug. Plugs are sold separately so please contact factory for ordering details.
2. Output can provide up to peak load when power supply starts up. Continuous staying in more than rated load is not allowed.
3. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
4. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
5. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
6. Ripple & noise is measured by using 20MHz limited bandwidth and with 0.47F capacitor in parallel across the output at nominal line and rated load.
7. Hold-up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
8. Optional output connectors are available for this series. Please call factory for ordering details.

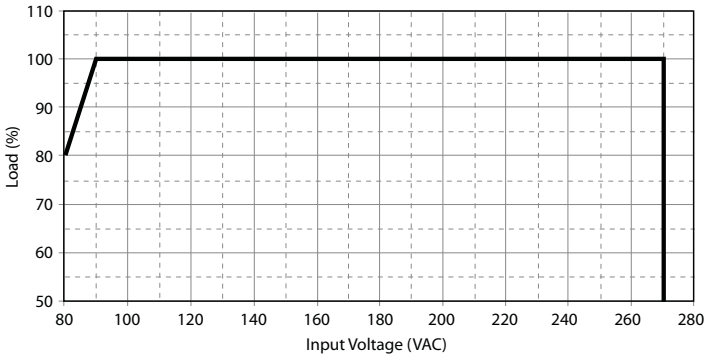
TECHNICAL SPECIFICATIONS: WMIHPU25 SERIES

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.

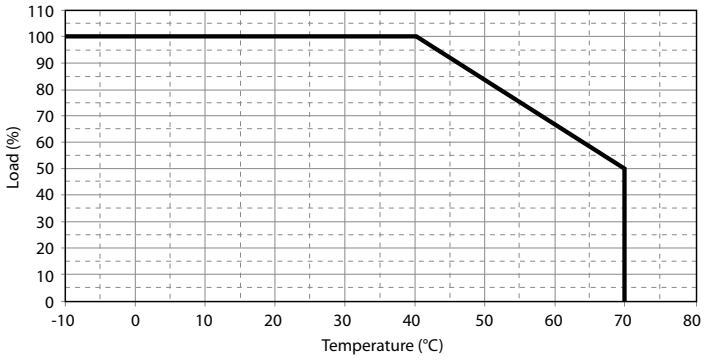
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage	Safety Approvals Input Voltage Range	100		240	VAC
	Derating linearly from 100% load at 90VAC to 80% load at 80VAC	80		275	
Input Frequency	Sine wave	47		63	Hz
Input Current	100VAC, full load			0.7	A
	240VAC, full load			0.4	
Inrush Current	100VAC, full load, 25°C, cold start			50	A
	240VAC, full load, 25°C, cold start			100	
No Load Power Consumption	230VAC, no load	See Table			
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	See Note 4	0.5		1	%
Total Regulation	See Note 5	See Table			
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (peak to peak)	See Note 6	See Table			
Hold-up Time	See Note 7	12			ms
Start-up Time	100~240VAC, full load			3	s
Transient Response Time	110VAC, Full load			4	ms
Temperature Coefficient		-0.04		+0.04	%/°C
PROTECTION					
Short Circuit Protection		Auto-recovery			
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
GENERAL SPECIFICATIONS					
Efficiency	Nominal line and rated load	See Table			
Dielectric Withstanding Voltage	Primary to Secondary, limit current <10mA	5656			VDC
Protection Classes		Double insulated, Class II			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating linearly from 100% Load at 40°C to 50% load at 70°C	-10		+70	°C
Storage Temperature	10~95% RH	-40		+85	°C
Operating Humidity	Non-condensing	0		95	%RH
Storage Humidity		0		95	%RH
Cooling		Free air convection			
Flammability Rating		UL94V-1			
Vibration	10~500Hz, 10min./1cycle, 60 min each along X, Y, Z axes	5			G
Operating Altitude (Elevation)				3000	m
MTBF	MIL-HDBK-217F, 25°C	100,000			hours
PHYSICAL SPECIFICATIONS					
Weight		7.05oz (200g)			
Dimensions (L x W x H)		2.95 x 1.71 x 1.58 inches (75.0 x 43.5 x 40.2 mm)			
AC Plug	"U" suffix	United States			
	"K" suffix	United Kingdom			
	"E" suffix	Europe			
	"A" suffix	Australia			
Output Connector		Several options available			
SAFETY, EMC, & COMPLIANCE					
Safety Approvals		ANSI/AAMI ES 60601-1:2005 (UL/cUL 3rd ed.)			
		IEC60601-1 3rd edition			
		CE			
EMC Emission	Compliance to EN55011 (CISPR11), EN61000-3-2,-3	B			Class
Surge Voltage		2			kV
Electro Static Discharge	Air Discharge, IEC61000-4-2	8			kV
	Contact Discharge, IEC61000-4-2	6			
Compliance		RoHS Compliant			
CEC & Energy Star		CEC and Energy Star 2.0, Efficiency Level V			

DERATING

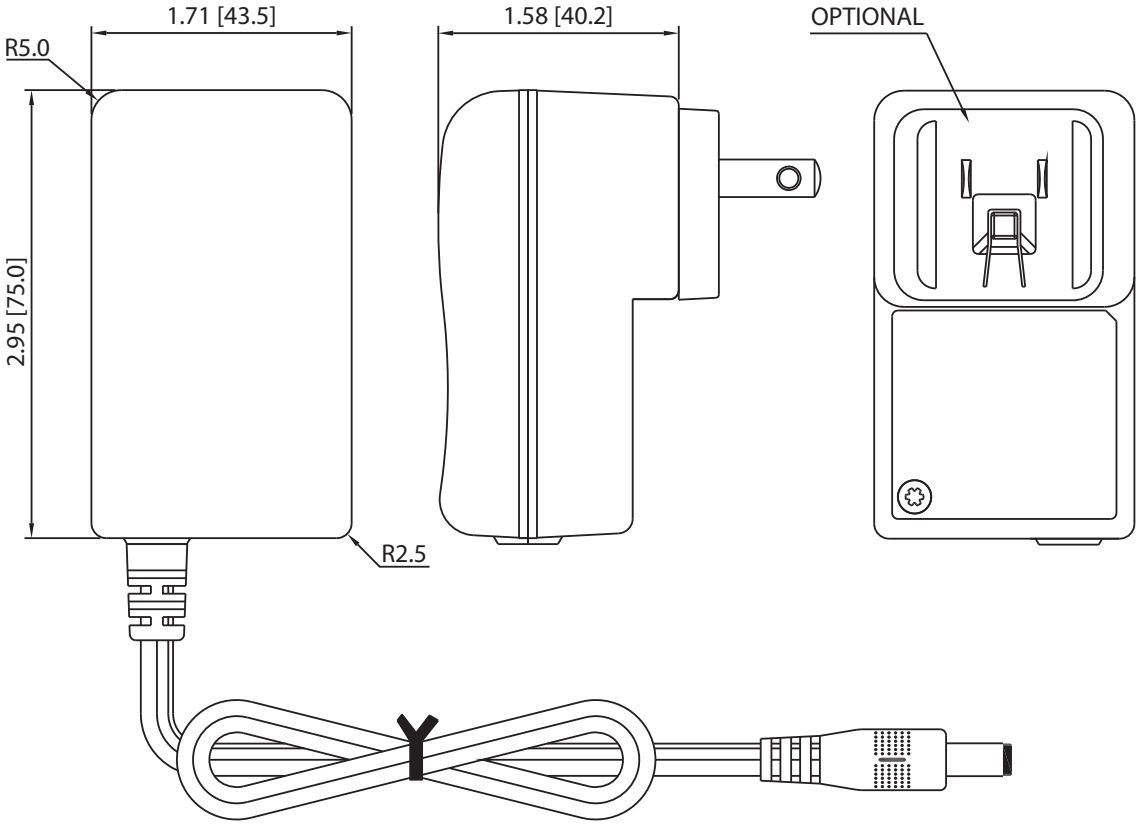
Input Voltage Derating Curve



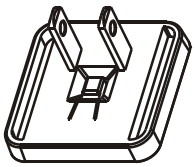
Temperature Derating Curve



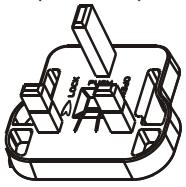
MECHANICAL DRAWING



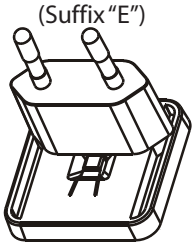
United States Type
(Suffix "U")



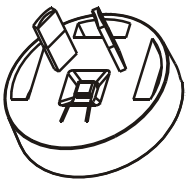
United Kingdom Type
(Suffix "K")



Europe Type
(Suffix "E")



AustraliaType
(Suffix "A")



NOTES:

1. Unit: inches [mm]
2. Tolerance: ±0.04 [±1.0]
3. Weight: 7.05oz (200g)
4. Models WMIHPU25-101~104 need to use AWG#18 2C/4FT output cable in order to meet the total regulation specified.
   Models WMIHPU25-105~109 need to use AWG#20 2C/4FT output cable in order to meet the total regulation specified.
   Models WMIHPU25-110~112 need to use AWG#22 2C/4FT output cable in order to meet the total regulation specified.
   The technical specifications will change if a different output cable is used.
5. Plugs are sold separately. Please call factory for ordering details.
6. Optional output connectors available. Please call factory for ordering details.
7. All dimensions are for reference only.

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.

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