



Size: 1.73in x 2.20in x 1.08in (44mm x 56mm x 27.5mm)

FEATURES

- 90~264VAC Operating Input Voltage Range
- USA Plug
- Optional Output Connectors
- RoHS Compliant
- DoE VI
- Short Circuit Protection
- Cooling by Free Air Convection
- Double Insulated Protection, Class II System
- UL 60950-1:2nd Edition, CSA C22.2 No. 609501-1-07 Safety Approvals

APPLICATIONS

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-Top Box
- AV Equipment

DESCRIPTION

The WMIPU10 series of AC/DC power supplies offers up to 10 watts of output power in a 1.73in x 2.20in x 1.08in wall mount package. This series consists of single output models with a wide operating input voltage range of 90-264VAC. Each model features USA plug, short circuit protection, and Class II system. This series has UL 60950-1:2nd Edition, CSA C22.2 No. 609501-1-07 safety approvals.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage ⁽¹⁾		Output Current ⁽³⁾		Ripple & Noise	Output Power	Efficiency
		Min.	Max.	Min Load	Max Load			
WMIPU10-102	90~264VAC	5VDC	5.99VDC	1.33A	1.60A	60mVp-p	8W	77.2%
WMIPU10-103		6.5VDC	8VDC	1.00A	1.23A	80mVp-p	8W	80.7%
WMIPU10-104		8VDC	11VDC	0.90A	1.25A	110mVp-p	10W	82%
WMIPU10-105		11VDC	13VDC	0.76A	0.90A	130mVp-p	10W	82%
WMIPU10-106		13VDC	16VDC	0.62A	0.76A	150mVp-p	10W	82%
*WMIPU10-107		16VDC	21VDC	0.47A	0.62A	150mVp-p	10W	82%
WMIPU10-108		21VDC	27VDC	0.37A	0.47A	200mVp-p	10W	82%
*WMIPU10-109		27VDC	33VDC	0.30A	0.37A	200mVp-p	10W	83%
*WMIPU10-110		33VDC	40VDC	0.25A	0.30A	200mVp-p	10W	84%
*WMIPU10-111		40VDC	48VDC	0.20A	0.25A	200mVp-p	10W	85%

*=MOQ is required, contact sales.

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	Safety Approval and Specification in Label	100		240		VAC	
	Operating Voltage Range, See Derating Curve	90		264			
Input Frequency	Sine Wave	47		63		Hz	
Input Current	Low Line, Full Load, Vin=100VAC		0.3			A	
	High Line, Full Load, Vin=240VAC		0.12				
Inrush Current	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC	25		35		A	
	High Line, Full Load, 25°C, Cool Start, Vin=240VAC	50		84			
OUTPUT SPECIFICATIONS							
Output Voltage		See Table					
Line Regulation	Full Load, Vin=100~120VAC	0.5		1		%	
Load Regulation	Vin=230VAC 10~90% Load Change at Condition	4		5		%	
Total Regulation	WMIPU40-102-WMIPU40-106		±5			%	
	WMIPU40-107-WMIPU40-111		±3				
No Load Consumption			0.1			W	
Output Power		See Table					
Output Current		See Table					
Ripple & Noise		See Table					
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4		ms	
Start-Up Time	Full Load, Vin=100~240VAC			3		S	
Hold-Up Time	Full Load, Vin=110VAC		10			mS	
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04		%/°C	

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SPECIFICATION	TEST CONDITIONS		Min	Typ	Max	Unit
PROTECTION						
Short Circuit Protection			Automatic Recovery			
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature	Derate linearly from 100% load at 40°C to 50% load at 70°C		-20		70	°C
Storage Temperature	10~95% RH		-40		85	°C
Operating Humidity	Non-Condensing		0		95	%RH
Storage Humidity			0		95	%RH
Operating Altitude	All Conditions				2000	m
Vibration	10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes				5	G
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		100,000			H
GENERAL SPECIFICATIONS						
Efficiency	Full Load, Vin=230VAC, Rated Load and Nominal Line		See Table			
Dielectric Withstanding Voltage	Primary to Secondary				4242	VDC
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz				0.25	mA
Surge Voltage	Line-Neutral				1	kV
PHYSICAL SPECIFICATIONS						
Weight			Approx. 3.17oz (90g)			
Dimensions (L x W x H)			1.73in x 2.20in x 1.08in (44mm x 56mm x 27.5mm)			
Cooling			Free Air Convection			
SAFETY CHARACTERISTICS						
Safety Approvals ⁽²⁾			UL 60950-1:2 nd Edition CSA C22.2 No. 609501-1-07			
EMC Emission	Compliance to EN55022 (CISPR22)		Class B			
Electro Static Discharge	IEC61000-4-2	Air Discharge			8	kV
		Contact Discharge			4	
Protection Class			Double Insulated, Class II			

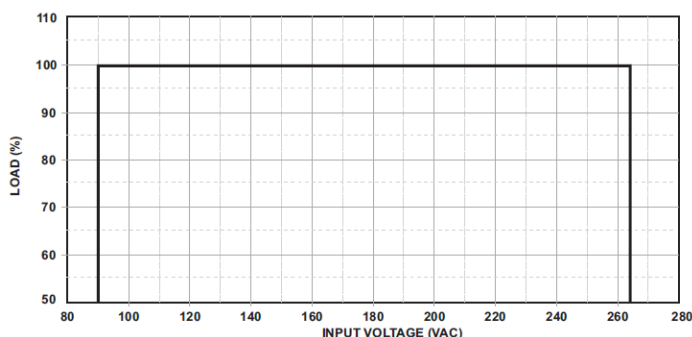
NOTES

1. Factory setting, cannot be adjusted.
2. This product is Listed to applicable standards and requirements by UL.
3. Output can provide up to peak load when power supply starts up. Continually staying in more than the rated load is not allowed.
4. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
5. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
6. Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load.
7. The ripple is measured from peak to peak with a bandwidth-limit of 20MHz (measured at the output connector with a 0.1uF ceramic capacitor and 47uF electrolytic capacitor).
8. 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.

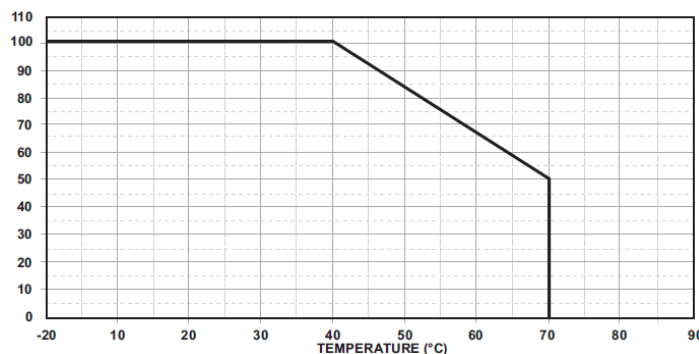
*Due to advances in technology, specifications subject to change without notice.

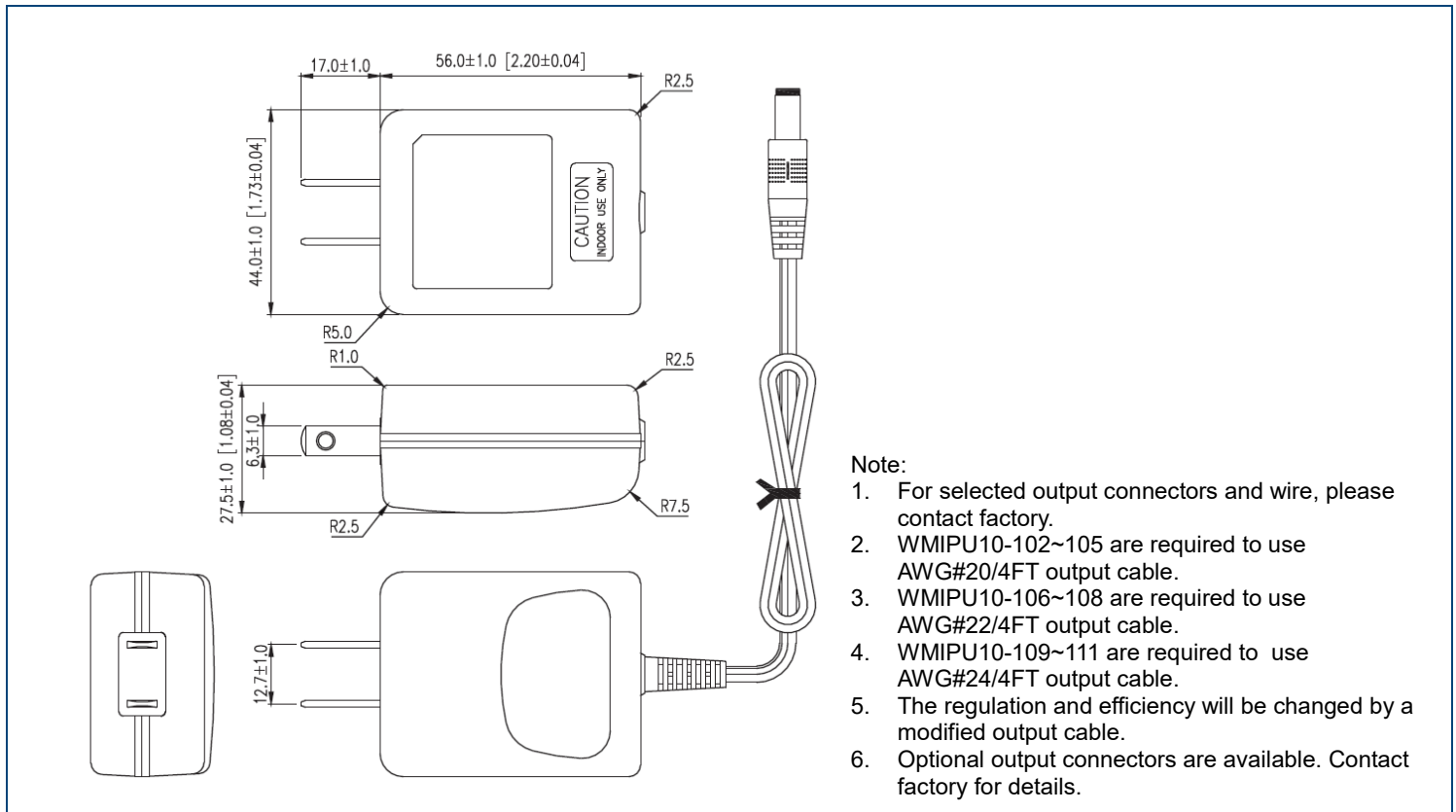
DERATING CURVES

Input Voltage Derating Curve



Temperature Derating Curve



MECHANICAL DRAWINGS**COMPANY INFORMATION**

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