Size: 2.93in x 1.34in x 1.1in (74.4mm x 33.95mm x 27.95mm)

OPTIONS

- Plug Type
- Case Color
- Output Tip

FEATURES

- 100~240VAC Rated Input Voltage Range
- High Average Efficiency of 88%
- DoE Level VI Compliant
- Several Output Tips Available; Compatible with Standard Plug
- Several Case Colors Available
- Interchangeable or Foldable Plug Available
- Short Circuit, Over Load and Over Current Protection
- Drop, Hi-Pot, and Burned-In Tested
- UL60950, FCC, EN60950, and IEC60950 Safety Approvals

APPLICATIONS

- Laptop Charger
- All In One PC Monitor
- Mobile Phone Charger
- Set-Top Box
- POS

DESCRIPTION

The WMAPD65xy model of wall mount power supplies offers up to 65 watts of output power in a versatile and compact 2.93” x 1.34” x 1.1” package. This is a single output model with a wide rated input voltage of 100~240VAC and high average efficiency of 88%. Several options are available for this model including case color, output tip, and plug type. This model has short circuit and over current protection, is DoE Level VI compliant, and has UL60950, FCC, EN60950, and IEC60950 safety approvals. Please contact factory for more information.

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	Rated Voltage	100		240	VAC
	Variation Range	90		264	
Input Frequency		47	50/60	63	Hz
Input Current	@Any input AC voltage and output full load			1.5	A
Inrush Current	@240VAC Input, Rated Output Load, 25ºC Ambient			100	A
Leakage Current	@240VAC Input			0.25	mA
OUTPUT SPECIFICATIONS					
Output Voltage			19		VDC
Line Regulation			±2		%
Load Regulation			±5		%
Output Power			65		W
Rated Load			3.42		A
Minimum Load		0			A
Ripple & Noise[2]	Nominal Voltage & Load, 20MHz bandwidth		350		mVp-p
Turn on Delay Time	@115VAC Input and Output Max. Load			0.2	Seconds
Rise Time	@115VAC Input and Output Max. Load			40	mS
Hold-Up Time	@115VAC Input and Output Max. Load	8			mS
PROTECTION					
Short Circuit and Over Load Protection	Power adapter shall have self-limiting protection to protect against short circuit or over load conditions. Continuous or intermittent short circuit conditions should result in no damage to the power supply. It will automatically recover when failure is removed.				
Over Current Protection	Automatic recovery when over current faults are removed.	4.0		6.9	A
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Full Load, Normal Operation	0		40	ºC
Storage Temperature		-40		85	ºC
Relative Humidity	72Hrs, Full Load, Normal Operation	5 (0ºC)		95% (30ºC)	%
MTBF	@25ºV, Full Load, Nominal Input		30,000		Hours

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
GENERAL SPECIFICATIONS					
Efficiency	@25%, 50%, 75%, & 100% of Full Load and 115AC Input	88			%
Overshoot	At turn on or turn off			10	%
Vibration[3]	Operating: IEC- 721-3-3 3M3 5 to 9Hz, A=1.5mm Acceleration (9~200Hz, Acceleration 5m/S)				
Transportation	IEC 721-3-2 2M2 5-9Hz, A=3.5mm 9~200Hz Acceleration=5m/S 200 to 500Hz, Acceleration=15m/S				
Axial Vibration	10 Cycles per axis, no permanent damage should occur during test. After power is turned off, supply can be restored to original condition.				
Drop Test	Finished products should be dropped freely to hardwood surface three times and contact area should be component damaged. 76cm height, free fall to 20mm thick planks. Appearance can wear but should not crack, input plug should not be loose, crooked and various function were normal.				
Burn-In	Power supply should be burned-in for 2-4 hours under normal input and 80% rated load at 35ºC±5ºC				
Hi Pot Test[4]	Hi Pot test should meet requirements listed in tables (See Note 4). 100% production test must be performed for each test item and be maintained for a minimum of 5 seconds without failure.				
PHYSICAL SPECIFICATIONS					
Dimensions (L x W x H)		2.93in x 1.34in x 1.1in (74.4mm x 33.95mm x 27.95mm)			
Input Connector		2 Pin Input Plug			
Output Cord		UL1185 18AWG VW-1 80ºC 300V, FT1			
DC Plug		0.39in x 0.22in x 0.83in (10mm x 5.5mm x 2.1mm)			
SAFETY CHARACTERISTICS					
Safety Approvals	UL/CUL UL60950, FCC, CE EN60950, CB IEC60950				
EMI	Meets Limits of : FCC Part 15	Class B Rules			
	EN55022, EN55013	Class B Rules			
Energy Efficiency	After warm up for 30 minutes				
EMS	EN61000-3-2 Harmonic Current Emissions				
	EN61000-3-3 Voltage Fluctuations & Flicker				
	EN61000-4-2 Electrostatic Discharge (ESD)	8kV Air Discharge 4kV Contact Discharge			
	EN61000-4-3 Radio-Frequency Electromagnetic Field Susceptibility Test-RS				
	EN61000-4-4 Electrical Fast Transient/Burst-EFT				
	EN61000-4-5 Surge Immunity Test: AC Power Line	Line to Line 1kV			
	EN61000-4-6 Conducted Radio Frequency Disturbances Test-CS				
	EN61000-4-8 Power Frequency Magnetic Field Test				
	EN61000-4-11 Voltage Dips				

NOTES

1. "X" in model number indicates plug type. "X" can either be "U" for US plug, "E" for EU interchangeable plug, or "K" for UK interchangeable plug. "Y" in model number indicates case color. "Y" can either be "W" for white, "BK" for black, "R" for red, or "BL" for blue.
2. Under nominal voltage and nominal load, the ripple & noise are measured with max. bandwidth of 20MHz and parallel 10uF electrolysis capacitor and 0.1uF ceramic capacitor crossed connect at testing point.
3. Test Standard: International Electrotechnical Commission
4.

ITEM	SPECIFICATION	REMARK
Primary to P.G.	3000VAC/5mA/5S	No Arcing
Primary to P.G.		No Breaking
Secondary to P.G.		

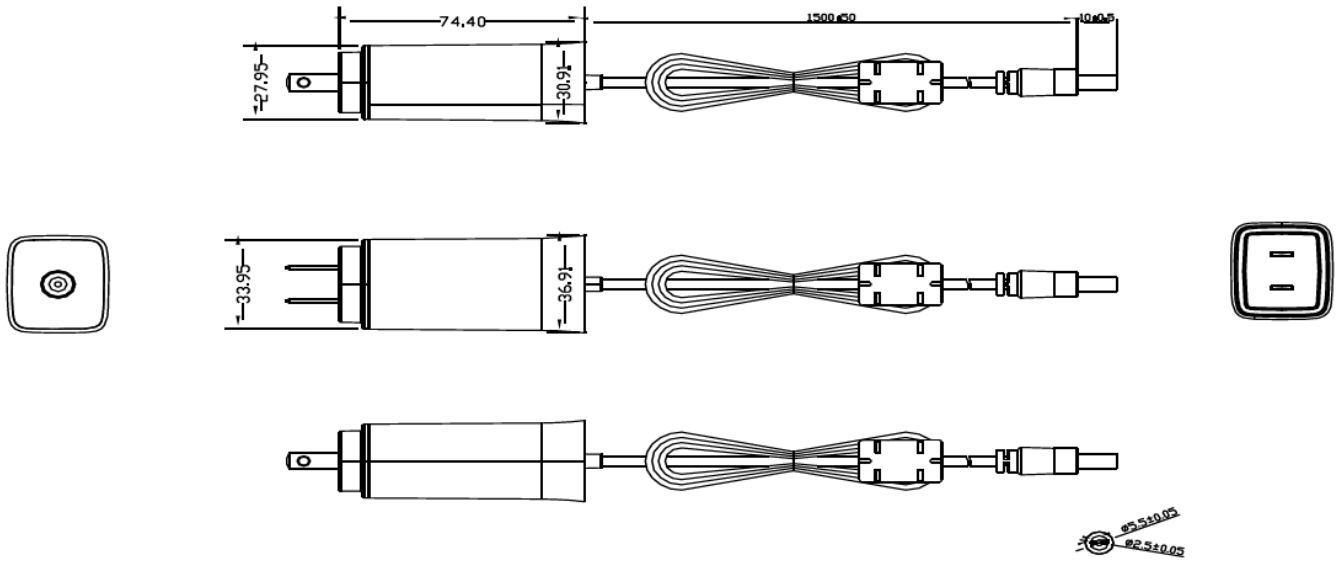
Insulation Resistance

ITEM	SPECIFICATION	REMARK
Primary to P.G.	>50MΩ; DC500V	
Primary to P.G.	>50MΩ; DC500V	For Class I Power Adapter

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

MECHANICAL DRAWINGS

unit in： mm



Output Cord: UL1185 18AWG VW-1 80ºC 300V, FT1
Length: 1.5M, DC Plug: **0.39in x 0.22in x 0.83in**

DC Output Tips

No	DC Connector Size	Brand	Notes
1	7.9mm x 5.5mm	Lenovo (20V3.25A)	
2	7.4mm x 5mm	DELL (19.5V3.34A)	
3	7.4mm x 5mm	HP (19.5V3.33A) Compaq	
4	11mm x 4.5mm	Thinkpad (20V3.25A)	90% Square interfaces use this connector
5	4.5mm x 2.7mm	DELL (19.5V3.34A)	
6	4.0mm x 1.35mm	ASUS 19V Super Notebook	
7	3.0mm x 1.1mm	ASUS 19V ACER Fujitsu	
8	6.5 x 4.4 x 1.4 x 11mm	Fujitsu (16V3.75A) SONY (16V4A) (19.5V3.3A)	
9	5.5mm x 2.5mm	ASUS (19V) LENOVO (20V3.25A) Toshiba (19V3.42A) LG(20.5V) Fujitsu (19V3.16A) Gateway (20.5V)NEC(15V4A) (19V3.42A)MSI(19V3.42A) Panasonic Sharp (20.5V)	
10	5.5mm x 1.7mm	Acer (19V3.42A) packard Bell dell gateway (20.5V)	90% ACER use this DC Connector
11	5mm x 3mm	Samsung (19V3.16A)	All Samsung 19V notebooks use this connector
12	4.8mm x 1.7mm	Sharp (18.5V3.5A) LG(19V4.74A)	90% HP yellow interfaces use this connector

MODEL NUMBER SETUP

WMAPD	65	x	y
Series Name	Output Power	Plug Type	Case Color
		U: US Plug **E:** EU Plug **K:** UK Plug	**W:** White **BK:** Black **R:** Red **BL:** Blue

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.

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