



telecommunication devices, office and civil applications devices.

FEATURES

- Universal input Voltage: 90 264VAC, 50/60Hz
- DoE Level VI efficiency
- Over voltage, Over current, Short circuit protection
- Fully enclosed plastic case
- 2 pole USA plug
- Small wall-mounted type

MA005-VA series is a small wall-mounted type adapter. This series features universal input voltage, low power consumption, high efficiency, high reliability, and safer isolation, meets IEC/EN61000-4, CISPR22/EN55032 and UL60950. The entire series supplies different models with output voltages range between 3V and 15V that can satisfy the demands for the various types of consumer electronic devices,

	Model	MA00503VA	MA00505VA	MA00509VA	MA00512VA	MA00515VA		
	DC Voltage	3V	5V	9V	12V	15V		
	Rated Current	1.0A	1.0A	0.5A	0.5A	0.4A		
	Current Range	0-1.0A	0-1.0A	0-0.5A	0-0.5A	0-0.4A		
	Rated Power	3.0W	5.0W	4.5W	6.0W	6.0W		
	Voltage Accuracy	±7%	±5%	±5%	±5%	±5%		
	Line Regulation	±1%	±1%	±1%	±1%	±1%		
	Load Regulation	±5%	±5%	±5%	±5%	±5%		
Output	Ripple &Noise*	120mVp-p max	120mVp-p max	120mVp-p max	120mVp-p max	150mVp-p max		
	Start-up Time	3s@100-240VAC, full load						
	Hold-up Time	10ms@115VAC, full load, 20ms@230VAC, full load						
	Rise Time	80ms max						
	Overshoot/ Undershoot	±10%						
	Transient Response	Output voltage range ±5%, load 25%-50%, 50%-75%, slope: 0.5A/us, frequency: 50Hz-10KHz						
	Input Voltage	90 - 264VAC						
	Input Frequency	47 - 63Hz						
	Efficiency(Typ.)	64.33%(ERP V)	73.62%	77.05%	78.88%	78.88%		
nput	Input Current	0.15A Max@100VAC, full load						
	Inrush Current	Cold start: 30A/230VAC						
	No Load Power	<0.1W						
	Leakage Current	0.25mA Max@240VAC						
Protections	Over Voltage	Rated output voltage 110%-150%						
	Over Current	Rated output current 110%-200%, self-recovery						
	Short Circuit	Hiccup, continuous, self-recovery						
Note	* Ripple and noise are measured by 20MHz bandwidth; at full load, 100-240VAC input, output terminated with a 0.1uF ceram capacitor and a 10uF electrolytic capacitor.							



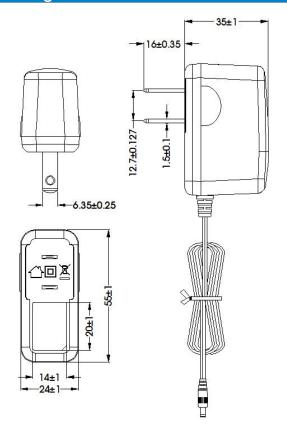
General Specifications					
Item	Operating Conditions	Min.	Тур.	Max.	Unit
Isolation Voltage	Input-output, test 1 minute, leakage current<5mA	3000	-		VAC
Insulation Resistance	Input-output, add 500Vdc test voltage	100			$\mathbf{M} \Omega$
Operating Temperature		-10		40	°C
Storage Temperature		-25		70	C
Operating Humidity		-		90	0/ DU
Storage Humidity				95	%RH
Altitude				2000	m
Lifetime	25℃	2			years
MTBF	MIL-HDBK-217F (25°C)	50000			hours

Physical Specification	sical Specifications		
Casing Material	PC, 120°C 94V-0		
Color	Black/White(Other color can be designed by customization)		
Dimension	(L)55.00mm x (W)24.00mm x (H)35.00mm		
Weight	55g (Typ.)		
Cooling Method	Free air convection		

EMC Specifications				
EN 41	RE	EN55032, CLASS B		
EMI	CE	EN55032, CLASS B		
	ESD(MAX)	IEC/EN61000-4-2 Contact ±8KV/Air ±15KV	perf. Criteria B	
EMS	RS	IEC61000-4-3 3V/m	perf. Criteria A	
EIVIO	CS	IEC61000-4-6 3Vrms	perf. Criteria A	
	Surge(MAX)	IEC/EN61000-4-5 ±2KV/ ±2KV	perf. Criteria B	
Note: Standard ESD contact $\pm 4KV/Air \pm 8KV$, surge $\pm 1KV/\pm 1KV$.				

Safety Standards			
Application Fields	Standard	Status	Note
IT	UL60950	Approved	
AV	UL60065	Meet	
Home Appliances	ETL1310	Meet	
Lighting	ETL1310	Meet	

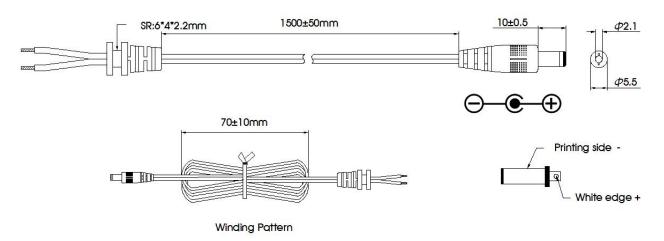
Mechanical Drawing



Note:

No display tolerance: ±0.12 Unit: mm

DC Wire Drawing



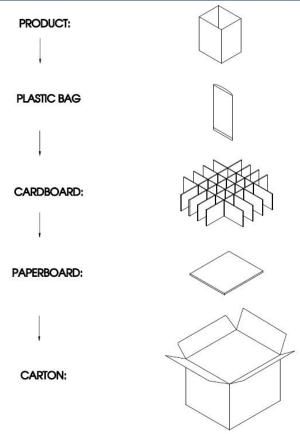
NO.	ITEM	Q′ TY	DESCRIPTION
01	CABLE	1PCS	3V UL2468 22AWG/2C 80°C/300V L=1500mm 5V/9V/12V/15V UL2468 24AWG/2C 80°C/300V L=1500mm
02	PLUG	1PCS	DC PLUG:5.5*2.1*10

Note:

1.Compliance with RoHS2.No display tolerance: ±0.12

3.Unit: mm

Package Drawing



Note:

1.Storage condition:
Temperature: -25°C to +70°C
Relative humidity: 30% - 80%RH.
2. Storage period: 6 months.
3. Antistatic: no requirement.

Note:

- 1. Products are related to laws and regulations: , "EMC" and "Safety standards".
- 2. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.
- 3. If the product is not operated within the required load range, the product performance cannot be guaranteed to comply with all parameters in the datasheet;
- Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity <75% with nominal input voltage and rated output load;
- 5. All index testing methods in this datasheet are based on our company corporate standards;
- 6. We can provide product customization service; Please contact our technicians directly for specific information;

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