





RoHS

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

MH12-A-A 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 24V that can satisfy the demands for the various types of consumer electronic devices, telecommunication devices, office and civil applications devices.

	specifications							
Model		MH12-0300250A-A	MH12-0500250A-A	MH12-0900150A-A	MH12-1200125A-A	MH12-1500100A-A	MH12-2400065A-A	
Output	DC Voltage	3V	5V	9V	12V	15V	24V	
	Rated current	2.5A	2.5A	1.5A	1.25A	1.0A	0.65A	
	Current range	0-2.5A	0-2.5A	0-1.5A	0-1.25A	0-1.0A	0-0.65A	
	Rated power	7.5W	12.5W	13.5W	15W	15W	15.6W	
	Voltage Accuracy	±7%	±5%	±5%	±5%	±5%	±5%	
	Line Regulation	±1%	±1%	±1%	±1%	±1%	±1%	
	Load Regulation	±5%	±5%	±5%	±5%	±5%	±5%	
	Ripple & Noise*	80mVp-p max	80mVp-p max	90mVp-p max	120mVp-p max	150mVp-p max	240mVp-p max	
	Start-up time	3s@100-240VAC, full load						
	Hold-up time	10ms@115VAC, full load, 20ms@230VAC, full load						
	Rise time	30ms 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.)	71.21%(ERP V)	80.21%	83.59%	84.13%	84.13%	84.32%	
Input	Input current	0.35A Max@100VAC, full load						
	Inrush current	Cold start:30A/115VAC,60A/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 ceramic capacitor and a 10uF electrolytic capacitor.							

12W AC/DC Adapter





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			M Ω
Operating Temperature		-10		40	°C
Storage Temperature		-25		70	
Operating Humidity			-	90	0/ DL I
Storage Humidity				95	%RH
Altitude				2000	m
Lifetime	25°C	2			years
MTBF	MIL-HDBK-217F (25°C)	50000			hours

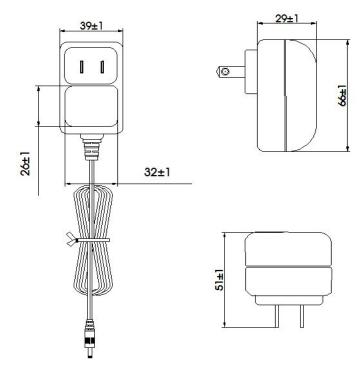
Physical Specifications			
Casing Material	PC,120°C 94V-0		
Color	Black/White(Other color can be designed by customization)		
Dimension	(L)66.00mm*(W)39.00mm*(H)29.00mm		
Weight	85g(Typ.)		
Cooling Method	Free air convection		

EMC Specifications				
EMI	RE	EN55032, CLASS B		
	CE	EN55032, CLASS B		
EMS	ESD	IEC/EN61000-4-2 Contact ±8KV/Air ±15KV	perf. Criteria B	
	RS	IEC61000-4-3 3V/m	perf. Criteria A	
	CS	IEC61000-4-6 3Vrms	perf. Criteria A	
	Surge	IEC/EN61000-4-5 ±2KV/ ±2KV	perf. Criteria B	

Safety Standards				
Application fields	Standard	Status	Note	
IT	UL60950	Approved		
AV	UL1310	Meet		
Lighting	UL1310	Meet		

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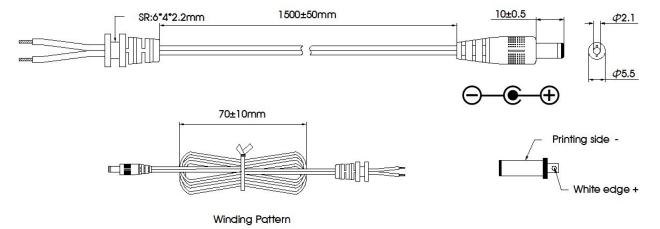
Mechanical Drawing



Note:

No display tolerance: ±0.12 Unit: mm

DC Wire Drawing



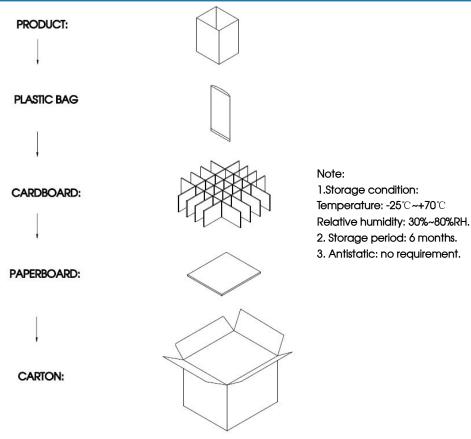
NO.	ITEM	Q′ TY	DESCRIPTION
			3V UL2468 18AWG/2C 80°C/300V L=1500mm
01	CABLE	1PCS	5V UL2468 20AWG/2C 80°C/300V L=1500mm
			9V/12V UL2468 22AWG/2C 80°C/300V L=1500mm
			15V/24V UL2468 24AWG/2C 80℃/300V L=1500mm
02	PLUG	1PCS	DC PLUG:5.5*2.1*10

Note:

1.Compliance with RoHS 2.No display tolerance: ±0.12 3.Unit: mm



Package Drawing



Note:

- 1. Products are related to laws and regulations: see "Features" and "EMC".
- 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:
- 4. 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's corporate standards;
- 6. We can provide product customization service; Please contact our technicians directly for specific information;

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