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FEATURES

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

MU012-HA 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, GB4943, EN60950, BS EN60950 and AS/NZS60950. The entire series supplies different models with output voltages range between 5V and 24V that can satisfy the demands for the various types of consumer electronic devices, telecommunication devices, office and civil applications devices.

Electric S	pecifications							
	Model	MU01205HA	MU01209HA	MU01212HA	MU01215HA	MU01224HA		
	DC Voltage	5V	9V	12V	15V	24V		
	Rated current	2.5A	1.5A	1.25A	1.0A	0.65A		
	Current range	0-2.5A	0-1.5A	0-1.25A	0-1.0A	0-0.65A		
	Rated power	12.5W	13.5W	15W	15W	15.6W		
	Voltage Accuracy	±5%	±5%	±5%	±5%	±5%		
	Line Regulation	±1%	±1%	±1%	±1%	±1%		
Outout	Load Regulation	±5%	±5%	±5%	±5%	±5%		
Culpu	Ripple & Noise*	120mVp-p max	120mVp-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	80ms max						
	Overshoot/ Undershoot	±10%						
Dutput	Transient response	Output voltage range ±5%, load 25%-50%, 50%-75%, slope:0.5A/us, frequency: 50Hz-10KHz						
lr Ir	Input voltage	90 - 264VAC						
	Input frequency	47 - 63Hz						
	Efficiency(Typ.)	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						
Over voltage Rated output voltage 110%-150% Protections Over current Rated output current 110%-200%, self-recovery Short circuit Hiccup, Continuous, self-recovery	Over voltage	Rated output voltage 110%-150%						
	Over current	Rated output current 110%-200%, self-recovery						
Note		e measured by 20MH; Felectrolytic capacito		ad, 100-240VAC inpu	t, output terminated	with a 0.1uF cerami		

General Specifications

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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			MΩ
Operating Temperature		-10		40	•••
Storage Temperature		-25		70	°C
Operating Humidity				90	0/ DU
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)68.00mm*(W)40.20mm*(H)34.50mm		
Weight	147g(Тур.)		
Cooling Method	Free air convection		

EMC Spe	ecifications		
	RE	EN55032, CLASS B	
EMI	CE	EN55032, CLASS B	
EMS	ESD(MAX)	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(MAX)	IEC/EN61000-4-5 ±2KV/ ±2KV	perf. Criteria B

Note: standard ESD contact ± 4 KV/Air ± 8 KV, Surge ± 1 KV/ ± 1 KV.

Safety Standards			
Application fields	Standard Status No		Note
П	GB4943, BS EN60950, EN60950, AS/NZS60950	Approved	
	K60950, J60950	Meet	
AV	GB8898, BS EN60065, EN60065, AS/NZS60065, J60065	Meet	
Home appliances	GB4706, BS EN61558-2-16, EN61558-2-16, AS/NZS61558-2-16, J61558-2-16	Meet	
Lighting	BS EN61347, EN61347, J61347	Meet	

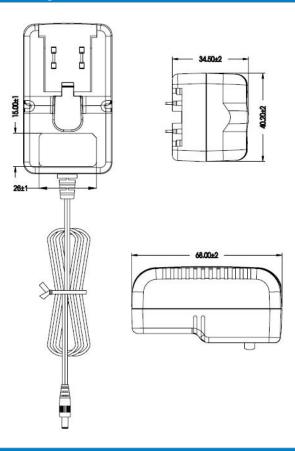
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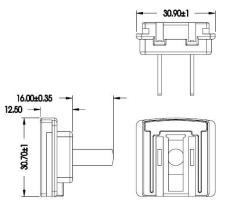


Mechanical Drawing



Note: No display tolerance: ±0.12 Unit: mm

Interchangeable Plug Mechanical Drawing China:



35.50*0.50

17.50±0.50

Ċ

Europe:

27.00±1

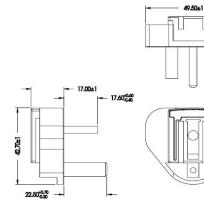
19.00±0.50

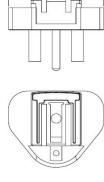
T

30.70±1

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Britain:





Australia:

17.06±0.40 16.50±1 41.00±1





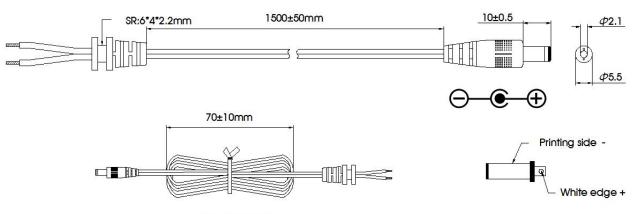
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Note: No display tolerance: ±0.12 Unit: mm

DC Wire Drawing



Winding Pattern

NO.	ITEM	Q' TY	DESCRIPTION	Note:
		5V UL2468 20AWG/2C 80°C/300V L=1500mm	1.Compliance with RoHS	
01	I CABLE 1PCS	IPCS	9V/12V UL2468 22AWG/2C 80°C/300V L=1500mm	2.No display tolerance: ± 0.12
			15V/24V UL2468 24AWG/2C 80°C/300V L=1500mm	3.Unit: mm
02	PLUG	1PCS	DC PLUG:5.5*2.1*10	

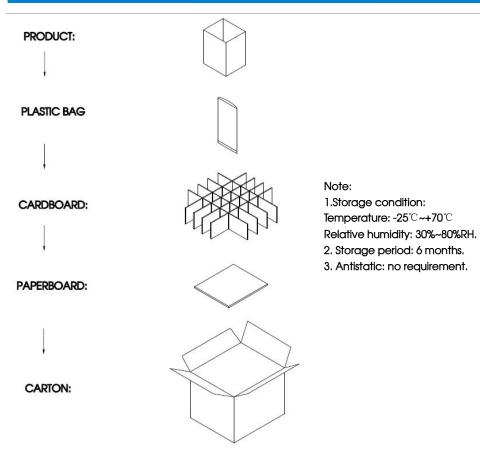
Package Drawing

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Note:

- 1. Products are related to laws and regulations: see "Features", "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;
- 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;

Mornsun Guangzhou Science & Technology Co., Ltd.

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