



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











RoHS

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 3V and 24V that can satisfy the demands for the various types of consumer electronic devices, telecommunication devices, office and civil applications devices.

Electric S	Specifications	5						
Model		MU01203HA	MU01205HA	MU01209HA	MU01212HA	MU01215HA	MU01224HA	
	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%	
Output	Load Regulation	±5%	±5%	±5%	±5%	±5%	±5%	
ou.pu.	Ripple & Noise*	120mVp-p max	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%						
	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						
iiipui	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.							

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12W AC/DC interchangeable Adapter MU012-HA Series



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/ DLI
Storage Humidity				95	%RH
Altitude				2000	m
Lifetime	25°C	2			years
MTBF	MIL-HDBK-217F (25°C)	50000			hours

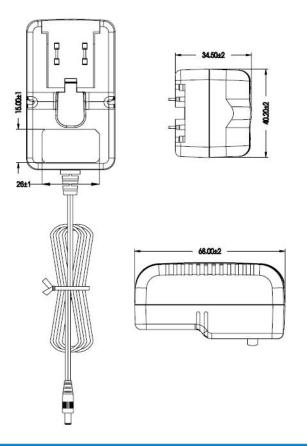
Physical Specifications			
Casing Material	PC,120°C 94V-0		
Color	Black/White(Other color can be designed by customization)		
Dimension	(L)68.00mm*(W)40.20mm*(H)34.50mm		
Weight	147g(Typ.)		
Cooling Method	Free air convection		

EMC Specifications					
EMI	RE	EN55032, CLASS B			
	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 $\pm 4KV/Air \pm 8KV$, Surge $\pm 1KV/\pm 1KV$.					

Safety Standards				
Application fields	Standard Status Note		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		



Mechanical Drawing

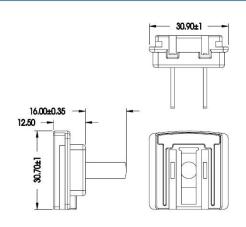


Note: No display tolerance: ±0.12

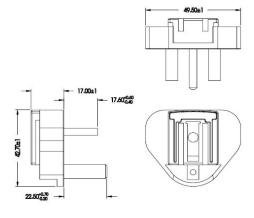
Unit: mm

Interchangeable Plug Mechanical Drawing

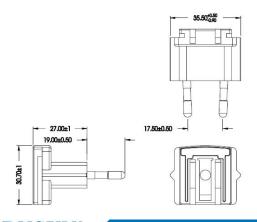




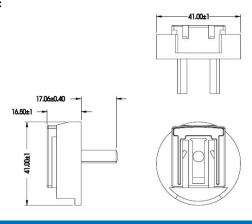
Britain:



Europe:



Australia:



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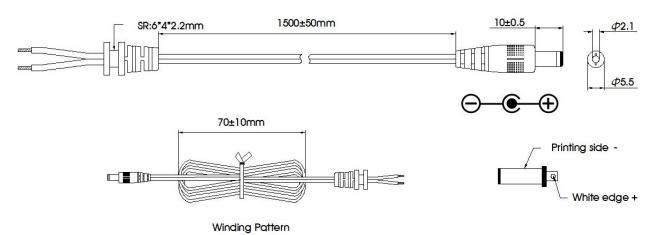


Note:

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°C/300V L=1500mm
02	PLUG	1PCS	DC PLUG:5.5*2.1*10

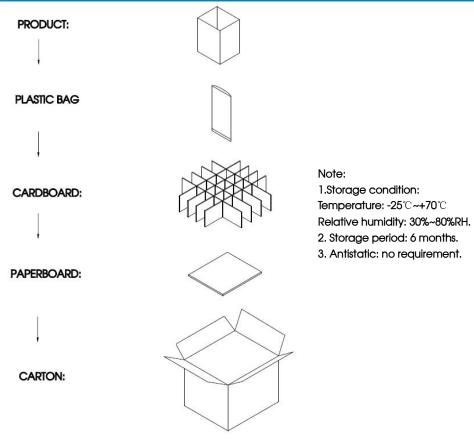
Note:

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

12W AC/DC interchangeable Adapter MU012-HA Series



Package Drawing



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;

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