





#### **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 Britain plug
- Small wall-mounted type

MG012-UA 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 BS EN60950.

	Specification		N 400 100 5 1 1 4	1400100014	1400101014	14001015114	N 400100 4114	
N	/lodel	MG01203UA	MG01205UA	MG01209UA	MG01212UA	MG01215UA	MG01224UA	
	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%	
	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	47 - 63HZ						
	Efficiency(Typ.)	71.21%(ERP V)	80.21%	83.59%	84.13%	84.13%	84.32%	
	Input current	0.35A Max@100VAC, full load						
nput	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		ple and noise are measured by 20MHz bandwidth; at full load, 100-240VAC input, output terminated with a 0.1uF ceramic actior and a 10uF electrolytic capacitor.						

# 12W AC/DC Adapter

### MG012-UA Series



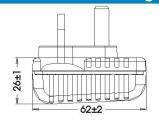
General Specifications					
Item	Operating Conditions	Min.	Тур.	Max.	Unit
Isolation Voltage	Input-output, Test 1 minute, leakage current<5mA	3000			VAC
Insulation Resistance	Input-output, add 500Vdc test voltage	100			<b>M</b> Ω
Operating Temperature		-10		40	20
Storage Temperature		-25		70	°C
Operating Humidity				90	O/ DI I
Storage Humidity				95	%RH
Altitude				2000	m
Lifetime	25°C	2			years
MTBF	MIL-HDBK-217F (25°C)	50000			hours

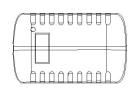
Physical Specifications				
Casing Material	PC,120°C 94V-0			
Color	Black/White(Other color can be designed by customization)			
Dimension	(L)62.00mm*(W)49.50mm*(H)26.00mm			
Weight	57g(Typ.)			
Cooling Method	Free air convection			

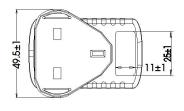
EMI	RE	EN55032, CLASS B	
	CE	EN55032, CLASS B	
EMS	ESD(MAX)	IEC/EN61000-4-2 Contact ±8KV/Air ±15KV	perf. Criteria B
	RS	IEC61000-4-3 3V/m	perf. Criteria A
	CS	IEC61000-4-6 3Vrms	perf. Criteria A
	Surge(MAX)	IEC/EN61000-4-5 ±2KV/ ±2KV	perf. Criteria B

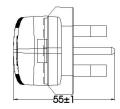
Safety Standards					
Application fields	Standard	Status	Note		
IT	BS EN60950	Approved			
AV	BS EN60065	Meet			
Home appliances	BS EN61558-2-16	Meet			
Lighting	BS EN61347	Meet			

#### **Mechanical Drawing**









Note:

No display tolerance: ±0.12

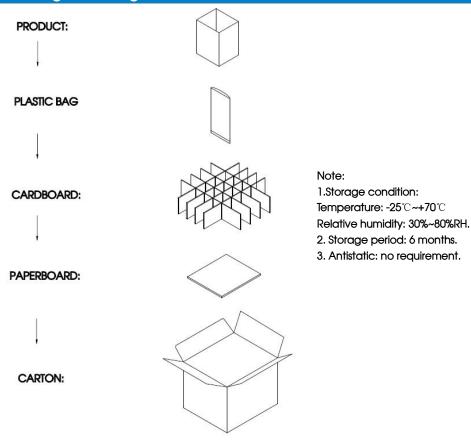
Unit: mm

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#### Package Drawing



#### Note:

- $1. \quad \hbox{Products are related to laws and regulations:} \hbox{see "Features"} \ , \hbox{"EMC"} \ \hbox{and "Safety standards"}.$
- 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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