MORNSUN[®]

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

MH05-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 15V that can satisfy the demands for the various types of consumer electronic devices, telecommunication devices, office and civil applications devices.

RoHS

Electric S	Specifications							
	Model	MH05-0300100A-A	MH05-0500100A-A	MH05-0900050A-A	MH05-1200050A-A	MH05-1500040A-A		
Output	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%		
	Ripple &Noise*	80mVp-p max	80mVp-p max	90mVp-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	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.)	64.33%(ERP V)	73.62%	77.05%	78.88%	78.88%		
Input	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		d noise are measured by 20MHz bandwidth; at full load, 100-240VAC input, output terminated with a 0.1uF ceramic Ind a 10uF electrolytic capacitor.						

MORNSUN[®]

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO., LTD.

2017.08.21-A/0 Page 1 of 4

5W AC/DC Adapter

MH05-A-A Series

MORNSUN®

General Specificat	tions					
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)55.00mm*(W)37.00mm*(H)25.00mm			
Weight	57g(Тур.)			
Cooling Method	Free air convection			

EMC Specifications				
EMI	RE	EN55032, CLASS B		
	CE	EN55032, CLASS B		
	ESD	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	IEC/EN61000-4-5 ±2KV/ ±2KV	perf. Criteria B	

Safety Standards					
Application fields	Standard	Status	Note		
Π	UL60950	Approved			
AV	UL60065	Meet			
Home appliances	UL1310	Meet			
Lighting	UL1310	Meet			

MORNSUN®

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO.,LTD.

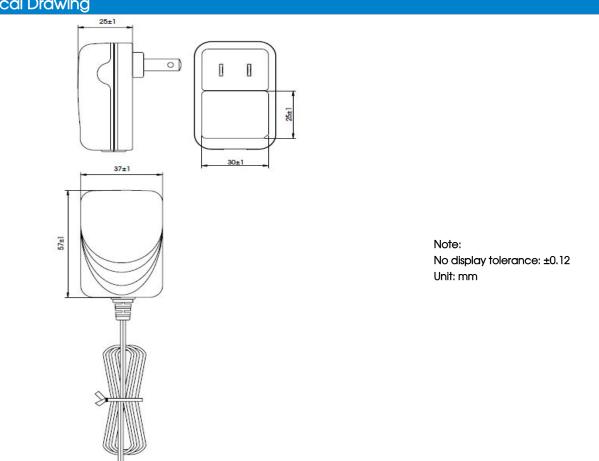
2017.08.21-A/0 Page 2 of 4

5W AC/DC Adapter

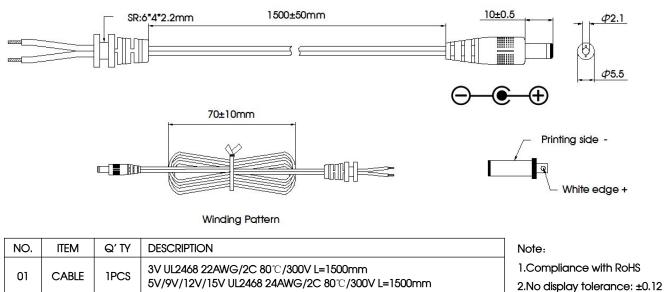
MH05-A-A Series

Mechanical Drawing





DC Wire Drawing



2.No display tolerance:3.Unit: mm



PLUG

1PCS

DC PLUG:5.5*2.1*10

02

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO., LTD.

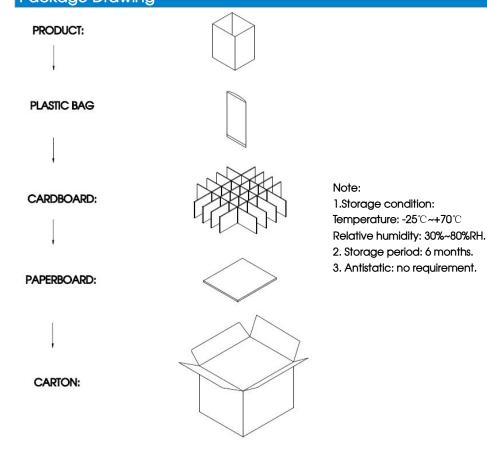
2017.08.21-A/0 Page 3 of 4

5W AC/DC Adapter

MH05-A-A Series

Package Drawing

MORNSUN®



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;

Mornsun Guangzhou Science & Technology Co., Ltd.

 Address: No. 5, Kehui St. 1, Kehui Development Center, Science Ave., Guangzhou Science City, Luogang District, Guangzhou, P. R. China

 Tel: 86-20-38601850-8801
 Fax: 86-20-38601272
 E-mail: sales@mornsun.cn

MORNSUN®

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO.,LTD.