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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
- 2 pole Australia plug
- Small wall-mounted type

MI018-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 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.

**RoHS** 

	Model	MI01803HA	MI01805HA	MI01809HA	MI01812HA	MI01815HA	MI01818HA	MI01824HA	
Output	DC Voltage	3V	5V	9V	12V	15V	18V	24V	
	Rated current	3.0A	3.0A	2.0A	1.5A	1.2A	1.0A	0.75A	
	Current range	0-3.0A	0-3.0A	0-2.0A	0-1.5A	0-1.2A	0-1.0A	0-0.75A	
	Rated power	9.0W	15W	18W	18W	15V 1.2A 0-1.2A 18W ±5% ±1% ±5% 150mVp-p max	18W	18W	
	Voltage Accuracy	±7%	±5%	±5%	±5%	±5%	±5%	±5%	
	Line Regulation	±1%	±1%	±1%	±1%	±1%	±1%	±1%	
	Load Regulation	±5%	±5%	±5%	±5%	±5%	±5%	±5%	
	Ripple & Noise*	120mVp-p max	120mVp-p max	120mVp-p max	120mVp-p max	150mVp-p max	180mVp-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%	:10%						
	Transient response	Output voltage range $\pm$ 5%, load 25%-50%, 50%-75%, slope:0.5A/us, frequency: 50Hz-10KHz							
	Input voltage	90-264VAC							
	Input frequency	47-63Hz							
	Efficiency(Typ.)	72.58%(ERP V)	81.39%	85%	85%	85%	85%	85%	
Input	Input current	0.5A Max@100VAC, full load							
	Inrush current	Cold start: 40A/115VAC, 80A/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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## 18W AC/DC Adapter

### MI018-HA Series

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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			MΩ
Operating Temperature		-10		40	•••
Storage Temperature		-25		70	°C
Operating Humidity				90	
Storage Humidity				95	%RH
Altitude				2000	m
Lifetime	25℃	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)74.70mm*(W)42.00mm*(H)31.00mm			
Weight	98g(Typ.)			
Cooling Method	Free air convection			

EMC Spe	ecifications		
<b>FN</b> 41	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 ±6KV/±6KV	perf. Criteria B
		N = 1010 / 0: mm = 110 / 1 110 /	

Note: standard ESD contact  $\pm$ 4KV/Air  $\pm$ 8KV, Surge  $\pm$ 1KV/  $\pm$ 1KV.

Safety Standards						
Application fields	Standard	Status	Note			
Π	AS/NZS60950	Approved				
AV	AS/NZS60065	Meet				
Home appliances	AS/NZS61558-2-16	Meet				

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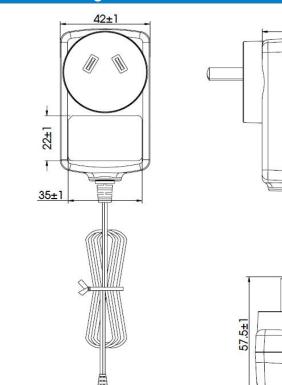
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## 18W AC/DC Adapter MI018-HA Series

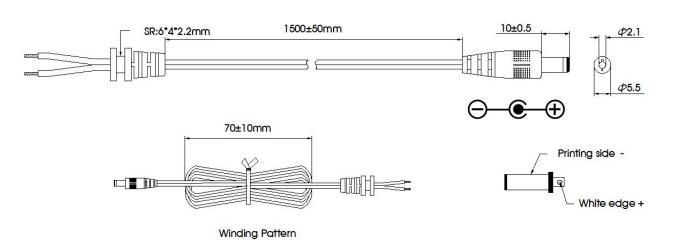
#### **Mechanical Drawing**





Note: No display tolerance: ±0.12 Unit: mm

## DC Wire Drawing



31±1

74.7±1-

NO.	ITEM	Q' TY	DESCRIPTION	Note:
01 C		CABLE 1PCS	3V/5V UL2468 18AWG/2C 80°C/300V L=1500mm	1.Compliance with RoHS
	CARLE		9V UL2468 20AWG/2C 80°C/300V L=1500mm	2.No display tolerance: ±0.12
	CABL		12V/15V UL2468 22AWG/2C 80°C/300V L=1500mm	3.Unit: mm
			18V/24V UL2468 24AWG/2C 80°C/300V L=1500mm	
02	PLUG	1PCS	DC PLUG:5.5*2.1*10	



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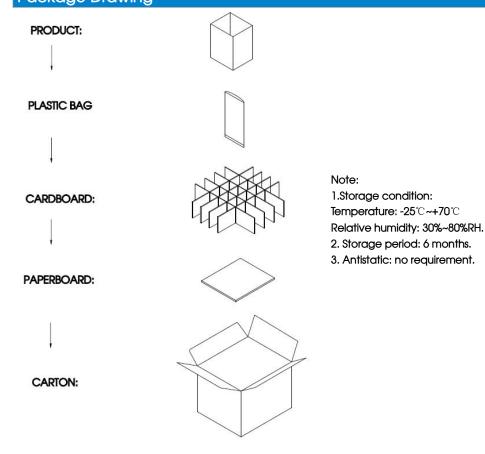
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# 18W AC/DC Adapter

MI018-HA Series

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;

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