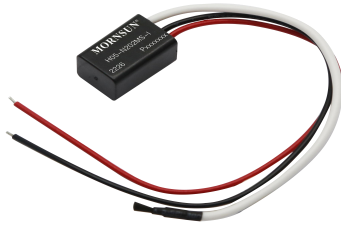


Ten million level negative-ion generator



RoHS



## FEATURES

- Ultra-small size: 18.0\*12.0\*10.0mm
- Input voltage range 200–240VAC
- Output voltage up to -5000VDC
- Negative ion concentration > 30 million pcs/cc
- Ozone concentration as low as 0.05ppm
- Ultra wide working temperature range: -25°C to +71°C
- Meet CCC, CQC, CE certification standards

The negative ion concentration of HO5-N202MS-I as high as tens of millions of pcs/cc, which can activate oxygen molecules in the air, effectively improve air quality, and bring the negative ion ecological bath effect of fresh forest air to the human body. Negative ions can neutralize static electricity and tighten the cuticles of the hair. In the field of hair care, it has the effect of moisturizing the hair and making the hair healthy and shiny. It can be widely used in air purifiers, negative-ion hair dryers, negative-ion hair curlers, negative-ion combs and other devices.

## Selection Guide

Certification	Part No.	Input Voltage (VDC)	Input Current (mA)	Output Voltage (VDC)		Negative-ion concentration (pcs/cc)	Ozone concentration (ppm)
		Nominal (Range)	Typ.	Typ.	Guaranteed range	Typ.	Max.
--	HO5-N202MS-I	220 (200~240)	3	-2000V	-1500V~-5000V	10 million	0.05

## Electrical Performance

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range		200	220	240	VAC
Input Current	Nominal 220VAC input	--	3	6	mA
Negative-ion concentration	Nominal 220VAC input, measured at a distance of 5cm from the negative-ion tester	--	30 million	--	pcs/cc
	Nominal 220VAC input, measured at a distance of 10cm from the negative-ion tester	--	10 million	--	
	Nominal 220VAC input, measured at a distance of 20cm from the negative-ion tester	--	3 million	--	
Ozone concentration	Nominal 220VAC input, Measured after 3 minutes of power in the 6.7L sealed box	--	--	0.05	ppm

## Environmental Characteristics

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	see Fig.1	-25	--	+71	°C
Operating Temperature Rise	Shell operating temperature rise	--	--	45	
Storage Temperature		-40	--	+85	
Storage Humidity	Non-condensing	5	--	85	%RH

### Reliability Performance

Item	Operating Conditions	Specifications
Vibration	10-150Hz, 5G, 0.75mm. along X, Y and Z, 6hours	After the test, there is no abnormality in electrical and mechanical properties
Temperature Shock	-40~+85°C, 500 temperature shock cycles	
High Temperature Storage	85±2°C, 500 hours	
High humidity Storage	85%RH, 500 hours	
Cryogenic Storage	-40±2°C, 500 hours	
High Temperature Aging	71±2°C, 500 hours	
High Humidity Aging	71±2°C, 80%RH, 500 hours	

### Other Performance

EMI	Conductive radiation	CISPR32/EN55032 CLASS A
	Radiation disturbance	CISPR32/EN55032 CLASS B
EMS	Electrostatic discharge	IEC/EN61000-4-2 Contact ±6kV perf. Criteria B
Safety	Insulation resistance	Insulation resistance between input and output > 15MΩ
	Dielectric strength	High voltage testing of more than 3000V/min between input line, gram body and launch pin
	Leakage current	Leakage current between input line, gram body and firing pin < 0.5mA

### Product Characteristic Curve

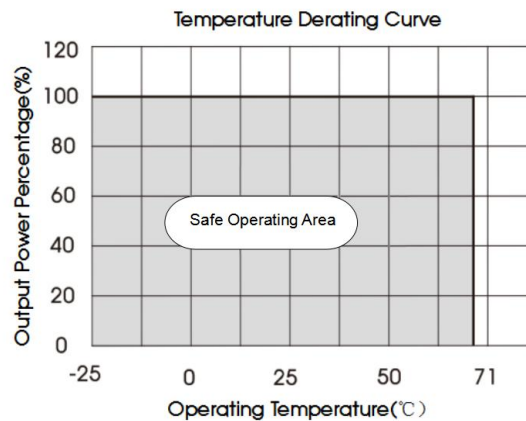

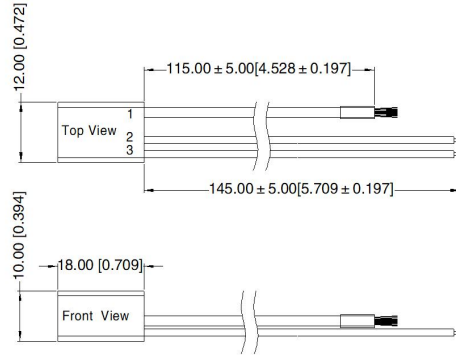


Fig.1

Appearance Dimension

Dimensions	18.0*12.0*10.0mm (see Fig.2)
Weight	2.0g (Typ.)

THIRD ANGLE PROJECTION 



Note:

Unit: mm[inch]

General tolerances:  $\pm 0.50$  [ $\pm 0.020$ ]

Pin-Out		
Pin	Wire Type	Mark
1	white UL-3239 24AWG	-HV
2	red UL-1569 24AWG	AC(L)
3	black UL-1569 24AWG	AC(N)

Fig.2

Notes:

- For additional information please refer to Product Packaging Information. Packaging bag number: 58210179;
- 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;
- Unless otherwise specified, parameters in this datasheet were measured under the conditions of  $T_a=25^\circ\text{C}$ , humidity<75%RH with nominal input voltage and rated output load;
- All index testing methods in this datasheet are based on our company corporate standards;
- We can provide product customization service;
- Products are related to laws and regulations: see "Features" and "EMC";
- Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

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