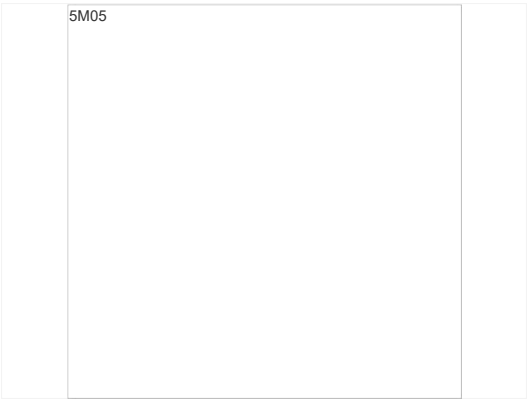




Product

Deeply cultivated in the industry for more than ten years, cumulatively serving more than 10W+ customers, WiFi modules, Bluetooth modules, power modules and other products are exported to more than 80 countries and regions, providing customers with professional and reliable IoT module products, strong technical support and thoughtful after-sales Service guarantee.

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HLK-5M05 5W power 5V output AC-DC power module


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220V to 5V1A isolation switch power module 5M05 AC-DC AC to DC step-down stabilizer module

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AC/DC-5W power module selection

MULTIPLE SPECIFICATIONS AVAILABLE

Universal input voltage 85-264VAC/70-350VDC

MODEL	POWER	VOLTAGE	ELECTRICITY
HLK-5M03	5W	3.3V	1500mA
HLK-5M05	5W	5V	1000mA
HLK-5M09	5W	9V	556mA
HLK-5M012	5W	12V	417mA
HLK-5M015	5W	15V	333mA

HLK-5M024

5W

24V

208mA

*Same size and pin for the same series


*Module dimensions 38x23x18mm(+8% error)

product features

PRODUCT FEATURES

- Global universal input voltage 90~265VAC
- Input/output isolation voltage 3000VAC
- Low power consumption, green environment protection, no load $<0.1\text{ W}$
- High efficiency, high power density
- High reliability, long life design, continuous working time >0.1 million hours
- Good output short circuit and over current protection and self - recovery
- International standard pin, PCB board straight plug installation
- Compliance with UL/CE/EMC and safety testing requirements
- It can be used in medical treatment, industrial control, electric power, instrument and meter, communication, railway and other fields


Service X

 Berin

 Ellen

 Anna

 Molly

 Bonnie

Electrical Specification

ELECTRICAL CHARACTERISTICS

Input characteristics (room temperature test)

rated input voltage 100-240VAC

input voltage range 85-264VAC/70-350VDC

Max Supply Current $\leq 0.2A$

Input Inrush Current $\leq 10A$ (model)

Input slow start $\leq 50ms$

long term reliability MTBF $\geq 100,000$ H

External fuse recommended 1A/250 vac or 10 Ω wire wound resistor

The input features

output load load percentage 100%MAX

voltage regulation factor $\pm 0.2\%$ (Tpy)

load regulation $\pm 0.5\%$ (Tpy)

Output Current Limiting Threshold 110%-150%
(maximum load)

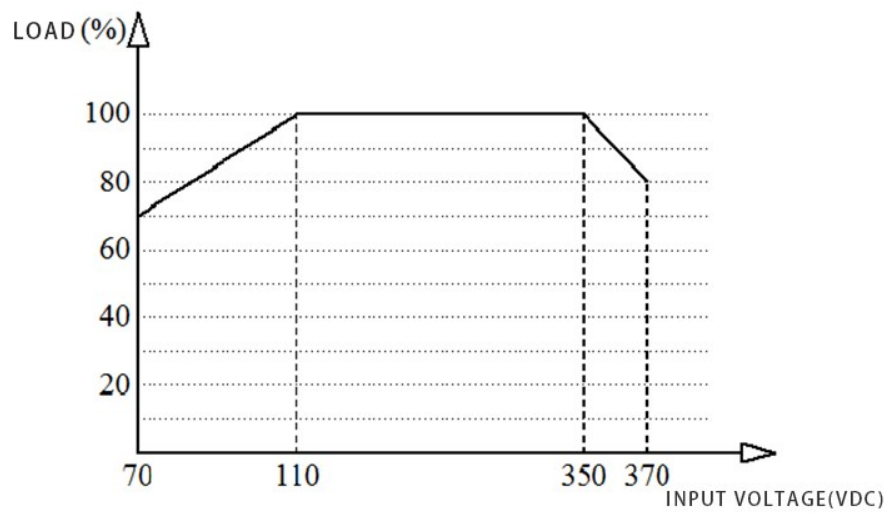
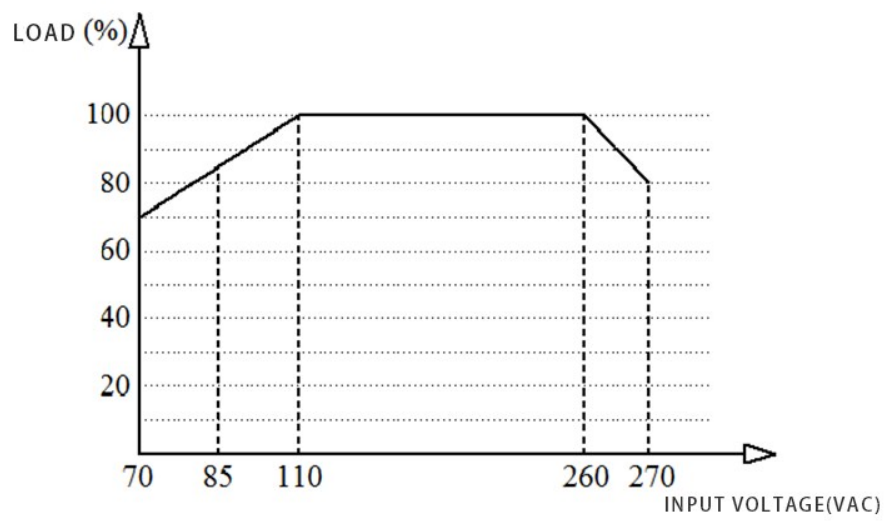
Output short circuit protection Sustainable, self-restoring (without damaging the host)

Ripple & amp; noise $\leq 100mVp-p$

*Ripple noise test: Rated input voltage, output full load. A 20MHz bandwidth oscilloscope with 10uF and 0.1uF capacitors at the load was used for the test.

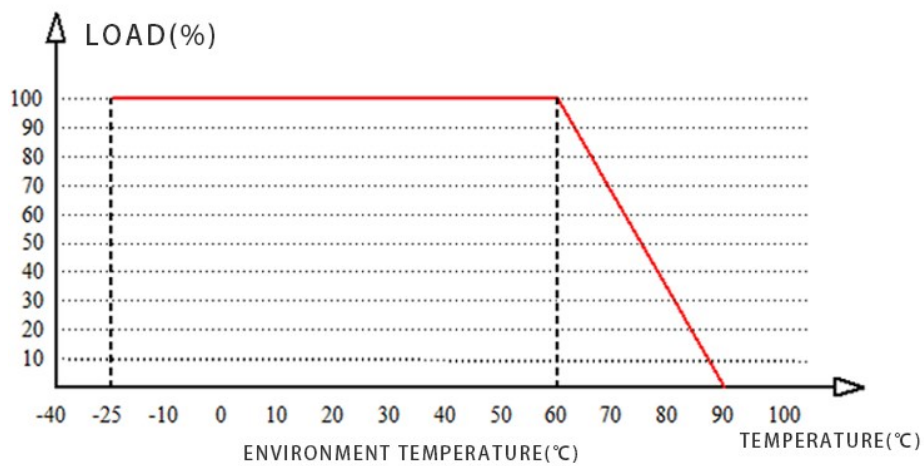
Input voltage and load characteristics

INPUT VOLTAGE&LOAD CHARACTERISTICS



Temperature reduction curve

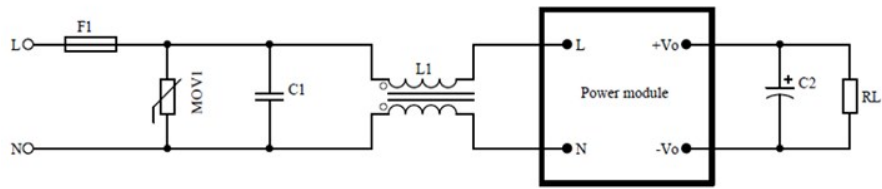
TEMPERATURE DERATING CURVE



Typical application circuit

APPLICATION CIRCUIT





Parameters are recommended

F1/fuse: 1 a/250 vac/10 Ω wire wound resistor, fuse

MOV1 Varistor: 10D561K(protect module from damage during surge)

C1/C2 safety capacitor: 0.1UF /275Vac(Filter/safety protection /EMC certification)

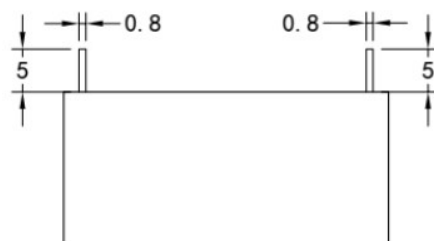
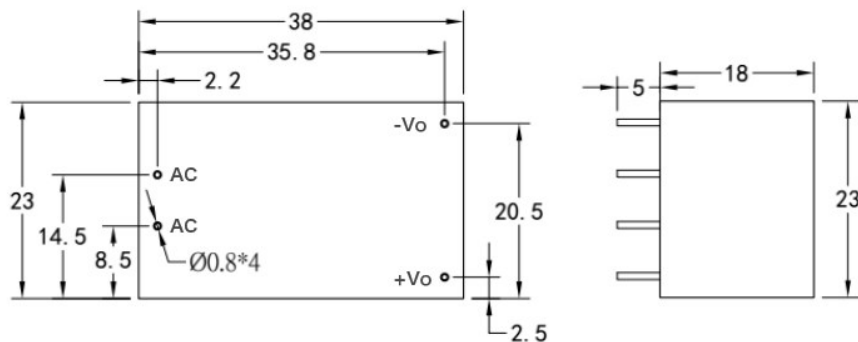
L1/Common Mode Choke: inductance value10-30mH(test requirement:1KHZ/0.3V 电流:100-500mA), EMI filter

note

1.Fuse and varistor are the basic protection circuit. 2. Safety capacitance and common mode inductance must not be omitted if certified.

boundary dimension

EXTERNAL DIMENSION



DIMENSION ERROR :
1.Error of length, width and height and pin spacing is 8mm
2. Pin length error ± 1 mm
3. Pin diameter error -0.2mm

Pin description

1: AC input; 3: -VO output negative; 4: +Vo output positive ;

* Note: If the pin definition of the power module is not in accordance with the selection manual, the label should prevail.



Contact Us

Phone : 0755-23152658;0755-83575196 ; ;
4008850221 ;

Fax : 0755-83575189

Address : 3rd Floor, West Gate, Caiyue Building, No.
24, Liuxian Avenue, Longhua, Shenzhen

Wuhan Branch: Wuhan Gicisky Technology Co., LTD

Address: Room 503, Tower A, Sakura Mansion,
Hongshan District, Wuhan city, Hubei Province

Phone:027-87050955;4008850221 ;

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