

HD03 SERIES**----AC-DC MODULE POWER SUPPLY 3W****product features**

- Wide voltage input range 85~264VAC (100~370VDC)
- Working temperature-40°C ~ +70°C
- Complete protection functions (short circuit protection self-recovery, etc.)
- High efficiency, high reliability
- Small size, PCB packaging
- Industrial product technical design

APPLIED RANGE

Power systems for wireless networks, telecommunications/data communication, power systems, industrial control systems, measurement instruments, and intelligent fields. Suitable for designs requiring large input range fluctuations, power isolation, limited board space, as well as achieving modular product functionality to enhance reliability.

PRODUCT MODEL

model	output voltage Vo	output Io	productiveness (TYP)
LHD03-S05	5V	600mA	72%
LHD03-S12	12V	250mA	78%
LHD03-S15	15V	200mA	81%
LHD03-S24	24V	125mA	81%

* IF YOU NEED OTHER SPECIFICATIONS AND MODELS, PLEASE CONTACT US DIRECTLY.

INPUT CHARACTERISTICS

input voltage range	85 ~ 264VAC (100 ~ 370VDC)		
incoming frequency	47 ~ 63Hz		
input currenton	125mA (TYP) @115VAc	80mA (TYP)@ 230VAc	
External fuse (recommended value)	1A/250V slow circuit breakers		

OUTPUT CHARACTERISTIC

Output voltage regulation accuracy	±2%
Source effect	±0.5% (typ)

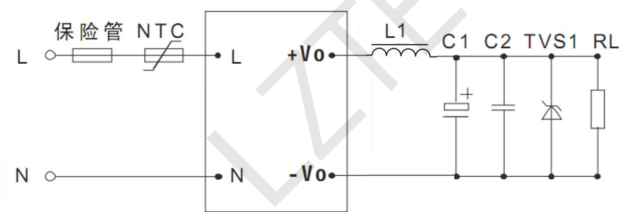
Load adjustment ratio (10%~100%)	±1% (typ)
Minimum load	10%
Output ripple + noise (peak-to-peak)	100mV(typ) (20MHz Bandwidth)
short-circuit protection	Can be short-term, self-restore
Output overvoltage protection	≥1.1 times

GENERAL CHARACTERISTIC

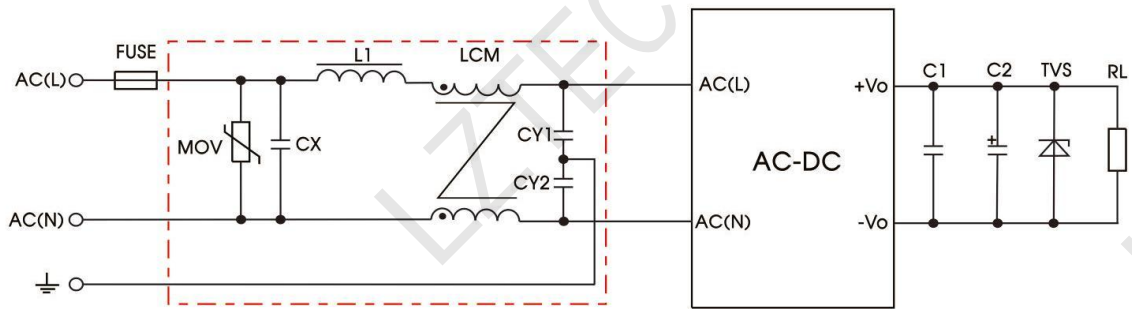
temperature characteristic	working temperature Power downgrades Storage temperature	-40℃ ~ +70℃ 3.75% / °C ,
Time of outage		40ms(typ)/ at Vin:320Vdc
humidity		85%RH(max)
Warming up		0.02%/℃
switching frequency		65kHz(typ)
Isolation voltage	Input-output	3000Vac/1Min
leakage current		<5mA RMS typ. 230VAC/50Hz
* Electromagnetic compatibility electrostatic discharge	IEC/EN 61000-4-2 level 3 6kV/8kV	
:: Radio frequency radiation immunity	IEC/EN 61000-4-3	
* Electrical rapid transient pulse group	IEC/EN 61000-4-4 level 3 2 kV	
* surge	IEC/EN 61000-4-5 level 3 1kV/2kV	
:: Conduction/radiation		EN55022, level A
security classification		CLASS II
Enclosure class		bare board
install		PCB
MTBF		>200,000h @25℃

Note: 1. To mark the * test item, it is necessary to add peripheral EMC recommended circuit;
2. All the above data are measured under the condition of TA=25℃ and humidity <75% unless otherwise specified.

Typical applications

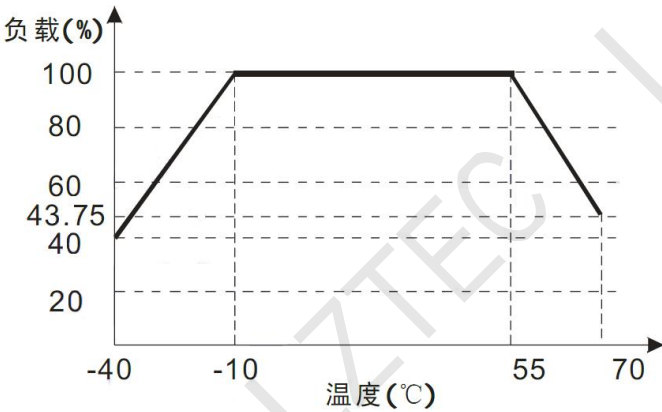
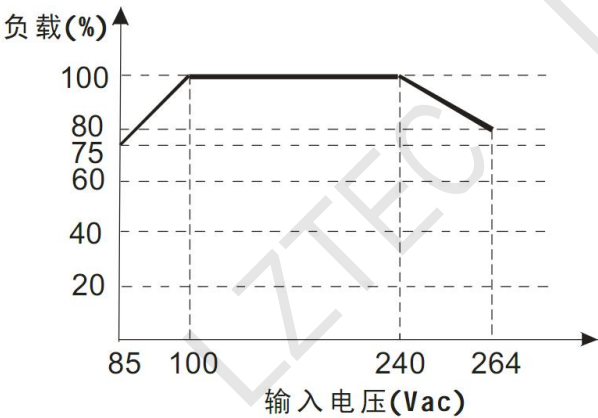


EMC recommended circuits

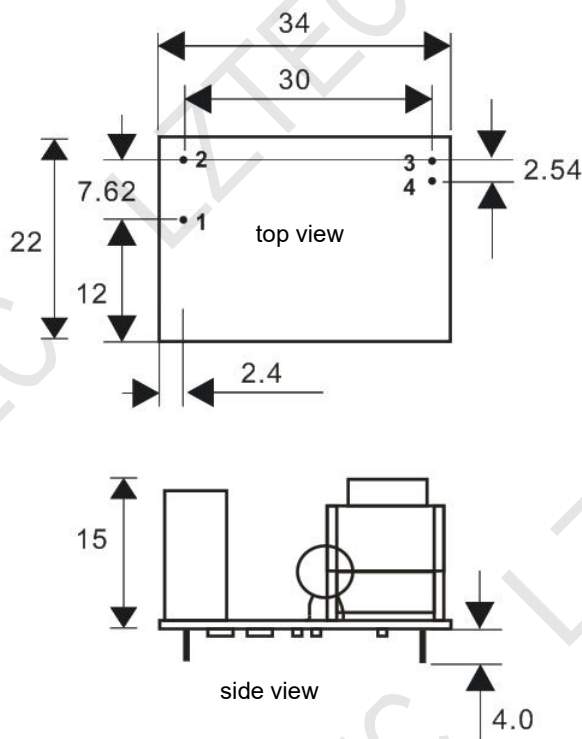


Device	Recommended value
MOV	14D471
CY1、CY2	1000pF/400VAC
CX	0.1uF/275VAC
LCM	>10mH
L1	4.7uH/2A
FUSE	1A/250V, slow break

INPUT VOLTAGE AND LOAD RELATIONSHIP TEMPERATURE AND LOAD RELATIONSHIP
DIAGRAM



APPEARANCE AND SIZE



Unit: mm Tolerance: $\pm 0.5\text{mm}$

pin	1	2	3	4
definition	AC(L)	AC(N)	+Vo	-Vo

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