

LHD05 SERIES**----AC-DC MODULE POWER SUPPLY 5W****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 applications requiring large input range fluctuations, power isolation, compact board space, modular product functionality, and enhanced reliability.

PRODUCT MODEL

model	output voltage Vo	output Io	productiveness (TYP)
LHD05-S05	5V	1000mA	73%
LHD05-S12	12V	420mA	79%
LHD05-S15	15V	333mA	81%
LHD05-S24	24V	210mA	82%

* 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 current	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)

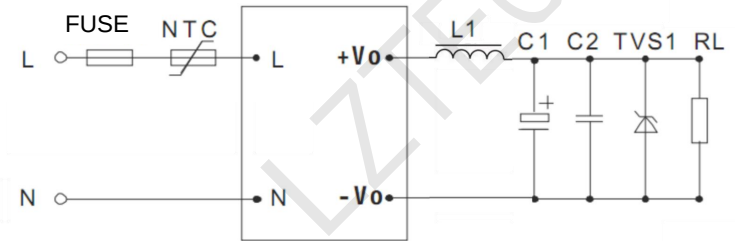
Load adjustment ratio (10%~100%)	±1% (typ)
Minimum load	10%
Output ripple + noise (peak-to-peak)	100mV(typ) (20MHz Bandwidth)
short-circuit protection	Can be short-term, self-restore
Output overvoltage protection	≥1.1 times

GENERAL CHARACTERISTIC

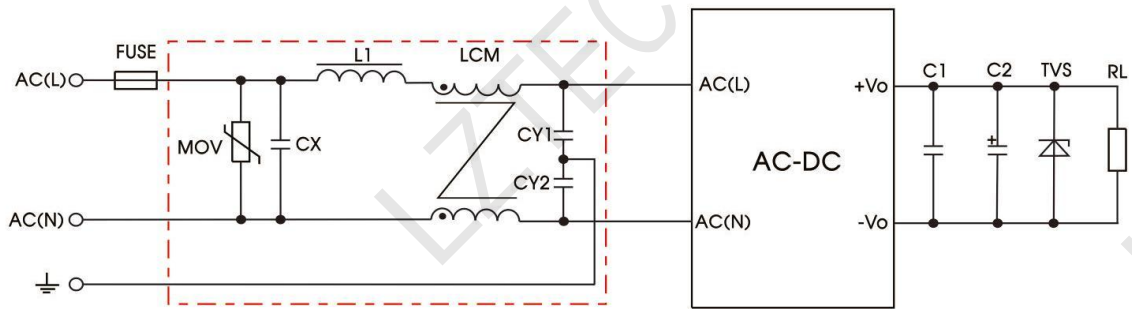
temperature characteristic	working temperature Power downgrades Storage temperature	-40°C ~ +70°C 3.75% / °C ,
Time of outage		40ms(typ)/ at Vin:320Vdc
humidity		85%RH(max)
Warming up		0.02%/°C
switching frequency		65kHz(typ)
Isolation voltage	Input-output	3000Vac/1Min
leakage current		<5mA RMS typ. 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 I
Enclosure class		bare board
install		PCB
MTBF		>200,000h @25°C

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°C and humidity <75% unless otherwise specified.

Typical applications

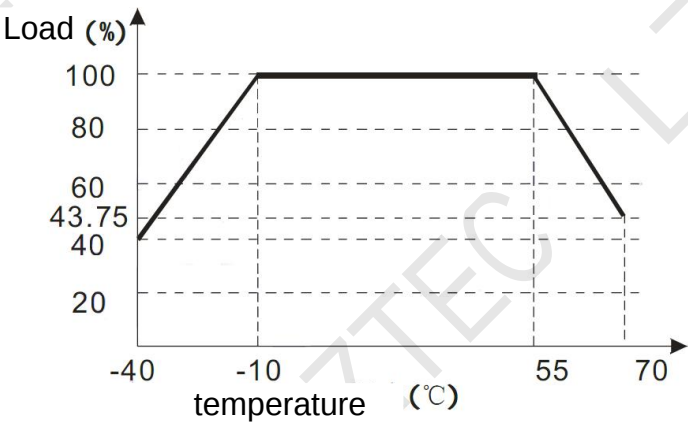
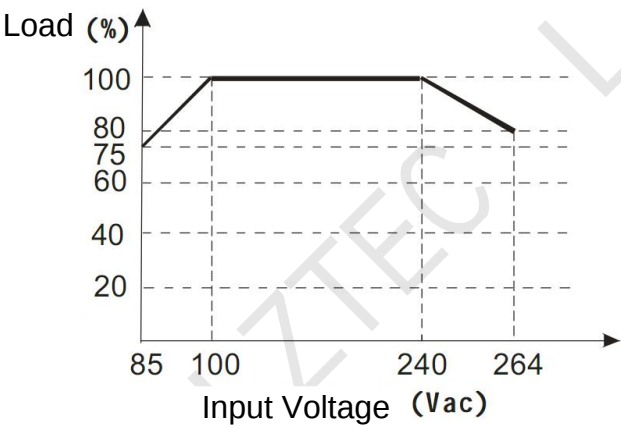


EMC recommended circuits

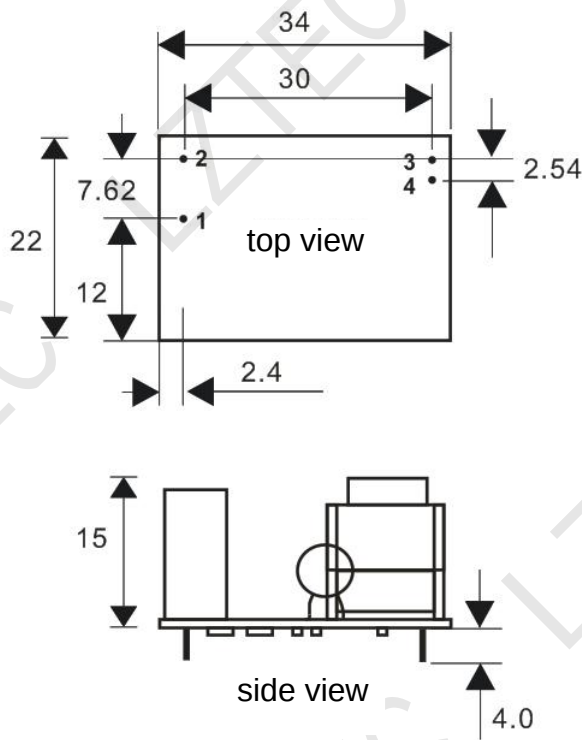


device	Recommended value
MOV	14D471
CY1、CY2	1000pF/400VAC
CX	0.1uF/275VAC
LCM	>10mH
L1	4.7uH/2A
FUSE	2A/250V, slow break

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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