

LHD12 SERIES**---- AC-DC MODULE POWER SUPPLY 12W****product features**

- Wide voltage input range 85 ~ 264VAC (100 ~ 370VDC)
- Working temperature -40℃ ~ +70℃
- Complete protection functions (short circuit protection self-recovery, etc.)
- High efficiency, high reliability
- Small size, plastic shell flame retardant 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, and modular product functionality to enhance reliability.

PRODUCT MODEL

model	output voltage Vo	output Io	productiveness (TYP)
LHD12-S05	5V	2400mA	82%
LHD12-S12	12V	1000mA	84%
LHD12-S15	15V	800mA	85%
LHD12-S24	24V	500mA	85%

* PRODUCT R & D CENTER, 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-acting	

OUTPUT CHARACTERISTIC

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

Load adjustment ratio (10%~100%)	$\pm 1\%$ (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

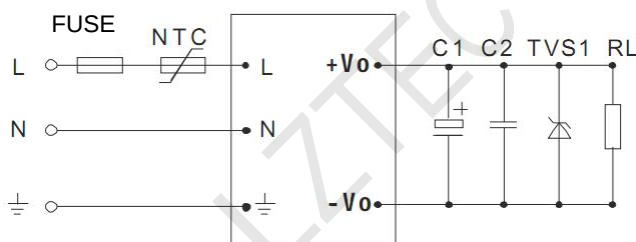
GENERAL CHARACTERISTIC

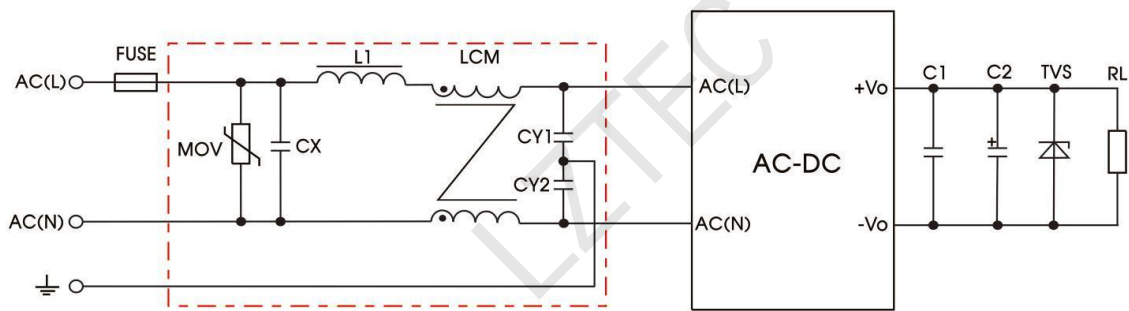
temperature characteristic	working temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
	Power downgrades	
	Storage temperature	$3.75\% / ^{\circ}\text{C}$
Time of outage		40ms(typ)/ at $V_{in}: 320\text{Vdc}$
humidity		85%RH(max)
Warming up		$0.02\%/^{\circ}\text{C}$
switching frequency		65kHz(typ)
Isolation voltage	Input-output	3000Vac/1Min
leakage current		$< 5\text{mA RMS typ. } 230\text{VAC}/50\text{Hz}$
* 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	
install	PCB	
MTBF	$> 200,000\text{h @}25^{\circ}\text{C}$	

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 $T_A = 25^{\circ}\text{C}$ and humidity $< 75\%$ unless otherwise specified.

Typical applications



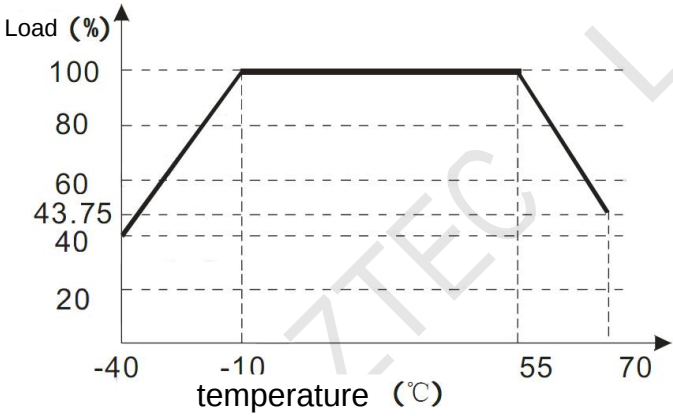
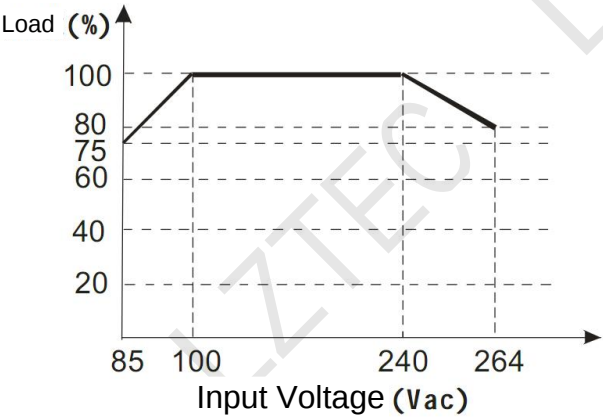


circuits

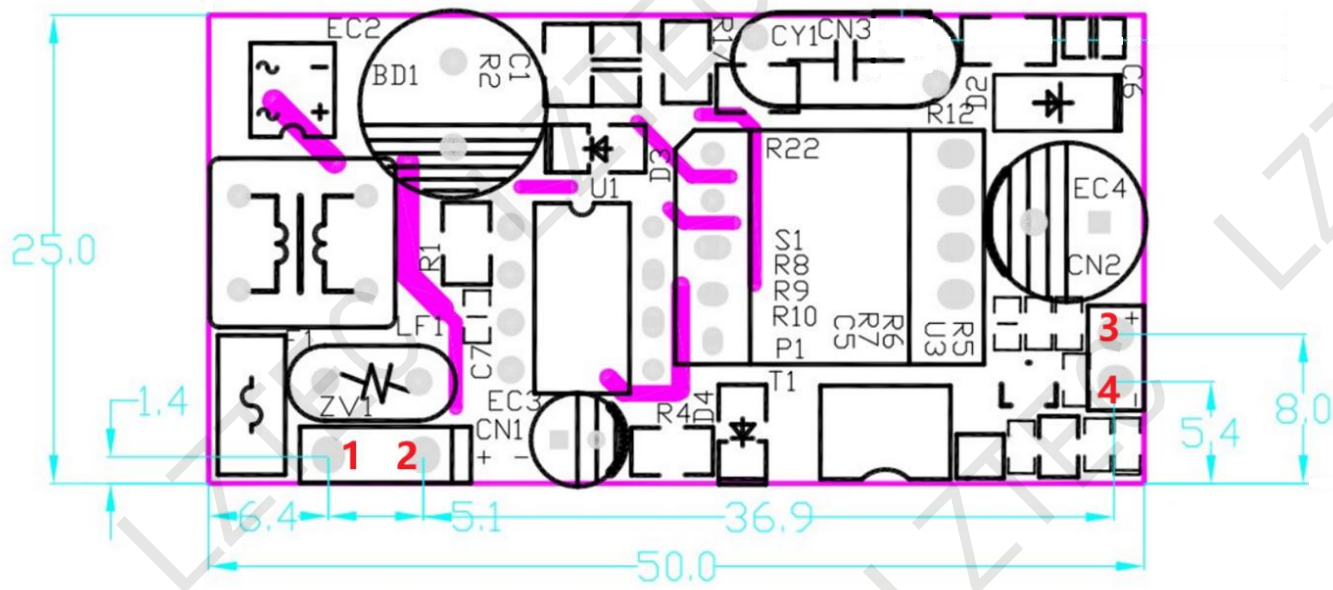
EMC recommended

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 DIAGRAM



APPEARANCE AND SIZE



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

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

E-mail: sales@lyztec.com
Web: www.lyztec.com
Tel: +86-0756-6358688