

LHLK-40M SERIES

----GAN AC-DC MODULE POWER SUPPLY 40W



Product features

- Wide voltage input range 85~264VAC (100~370VDC)
- Complete protection functions (short circuit protection self-recovery, etc.)
- High efficiency, high reliability
- Stable output, low ripple noise
- Industrial product technical design
- Working temperature 40-70°C

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)
*LHLK-40M05A1	5V	7000mA	85%
LHLK-40M12A1	12V	3333mA	90%
LHLK-40M15A1	15V	2666mA	90%
LHLK-40M24A1	24V	1666mA	91%

:: R & D
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	1A (MAX) @115VAc	0.6A (MAX)@ 230VAc
External fuse (recommended value)	3.15A/250V slow break	

OUTPUT CHARACTERISTIC

Output voltage 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)	150mV(max) (20MHz Bandwidth)
short-circuit protection	Can be short-term, self-restore
Output overcurrent protection	≥1.1 times the output rated power

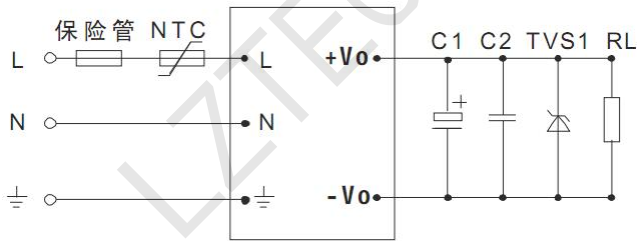
GENERAL CHARACTERISTIC

temperature characteristic	working temperature	-40°C ~ +70°C
	Power downgrades	
	Storage temperature	3.75% / °C ,
	case temperature	
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		UL94V-0 flame retardant plastic
install		PCB
MTBF		>200,000h @25°C

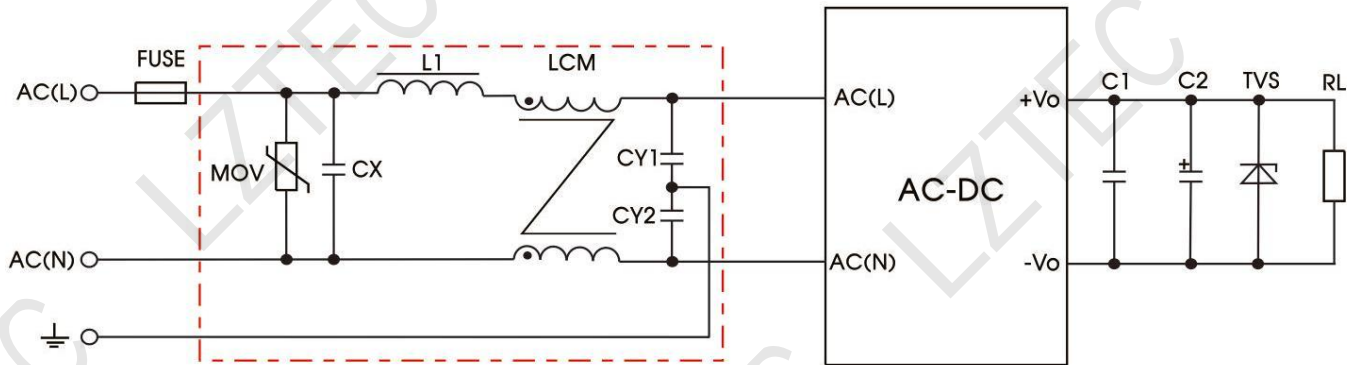
Note: 1. To mark the * test item, it is necessary to add peripheral EMC recommended circuit;

2. All the above data are measured under the condition of TA=25°C and humidity <75% unless otherwise specified.

Typical applications

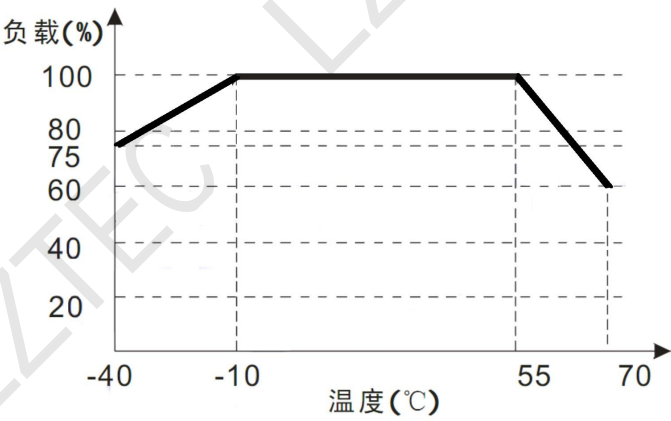
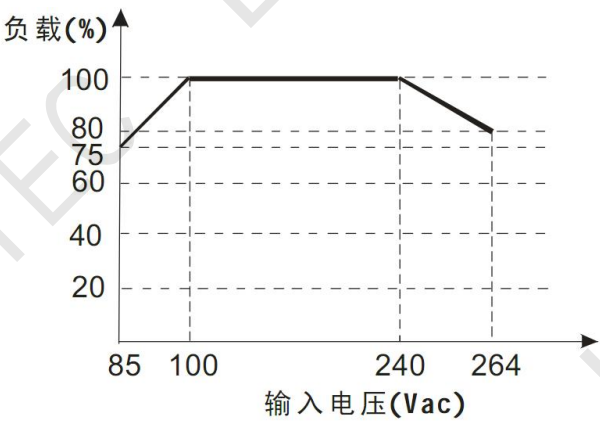


EMC recommended circuits

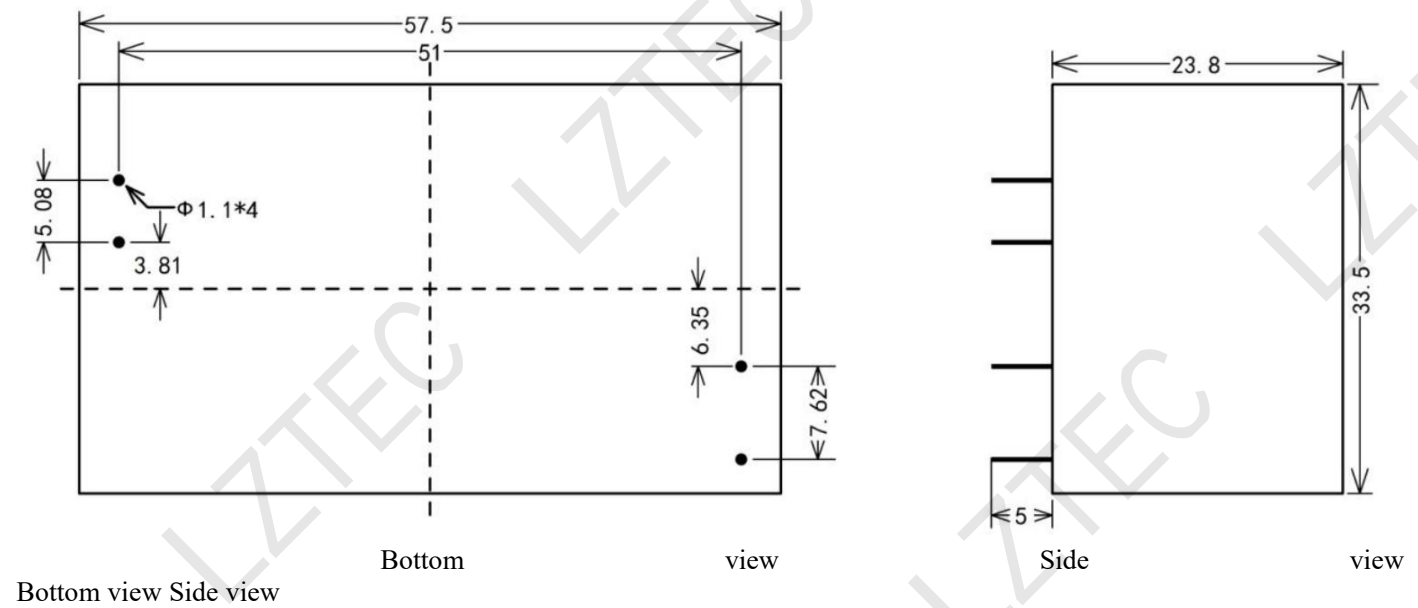


device	Recommended value
MOV	14D561
CY1、CY2	2200pF/400VAC
CX	0.15uF/275VAC
LCM	>10mH
L1	4.7uH/3A
FUSE	3.15A/250V, slow break

INPUT VOLTAGE AND LOAD RELATIONSHIP TEMPERATURE AND LOAD RELATIONSHIP DIAGRAM



APPEARANCE AND SIZE



Unit: mm Tolerance: ± 0.25 mm

Pin definition:

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

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