

LD60-23B05R2-S

----60W AC-DC MODULE POWER SUPPLY WITH SMALL SIZE



product features

- Wide voltage input range: 85 ~ 305VAC (100 ~ 430VDC)
- Operating temperature: -40°C to +85°C
- Complete protection features (including self-recovery for short-circuit protection)
- High efficiency, high reliability
- Stable output, low ripple noise

APPLIED RANGE

Power systems for wireless networks, telecom/data communications, power grids, industrial control systems, measurement instruments, and intelligent applications. Ideal for designs requiring wide input range tolerance, power isolation, compact PCB space, and modular product functionality to enhance reliability.

PRODUCT MODEL

model	output voltage Vo	output Io	productiveness (TYP)
*LD60-23B05R2-S	5V	12000mA	88%
LD60-23B12R2-S	12V	5000mA	90%
LD60-23B15R2-S	15V	4000mA	91%
LD60-23B24R2-S	24V	2500mA	92%

*UNDER DEVELOPMENT
FOR OTHER SPECIFICATIONS OR MODELS, PLEASE CONTACT US DIRECTLY.

INPUT CHARACTERISTICS

input voltage range	85 ~ 305VAC (100 ~ 430VDC)	
incoming frequency	47 ~ 63Hz	
input currenton	800mA (MAX) @115VAc	500mA (MAX)@ 230VAc
External fuse (recommended value)	3.15A/250V Slow Switching	

OUTPUT CHARACTERISTIC

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

Load adjustment rate (10%~100%)	±1% (typ)
minimum load	10%
Output ripple + noise (peak-to-peak)	100mV(typ) (20MHz Bandwidth)
short-circuit protection	Can be short-circuited for a long time and self-recover
Overcurrent protection output	≥1.2 times

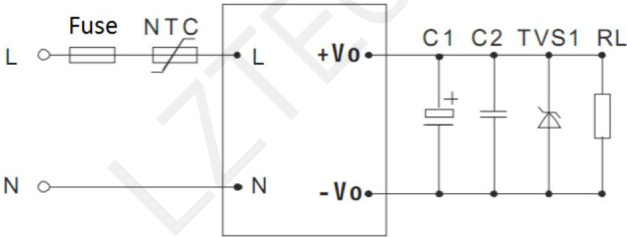
GENERAL CHARACTERISTIC

temperature characteristic	working temperature	-40°C ~ +85°C
	Power derating	
	storage temperature	3.75% / °C ,
	case temperature	
Battery Drain Time		40ms(typ)/ at Vin:320Vdc
humidity		85%RH(max)
thermophilic		0.02%/°C
switching frequency		65kHz(typ)
isolation voltage	Input--Output	4000Vac/1Min
leakage current		<5mA RMS typ. 230VAC/50Hz
Electromagnetic compatibility electrostatic discharge	IEC/EN 61000-4-2 level 4 8kV/15kV	
radio frequency radiation immunity	IEC/EN 61000-4-3	
fast transient pulse train	IEC/EN 61000-4-4 level 4 ±4 kV	
* surge		
Conduction/Radiation		EN55022, level B
security classification		CLASS II
shell grade		UL94V-0 flame retardant plastic
install		PCB
MTBF		>200,000h @25°C

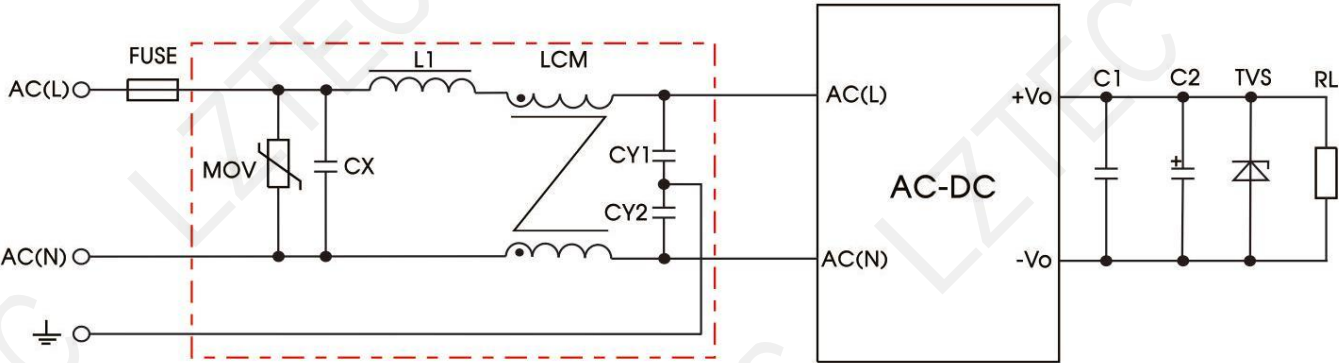
Note: 1. For test items marked with *, an external EMC-recommended circuit must be added.

2. Unless otherwise specified, all the data listed above were measured under conditions of TA=25°C and humidity<75%.

Typical application

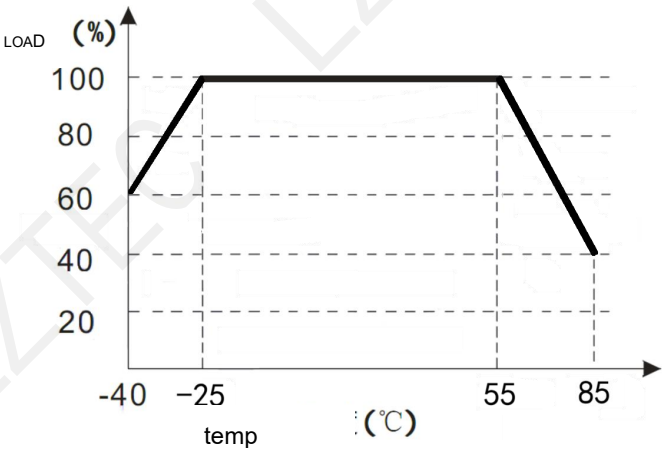
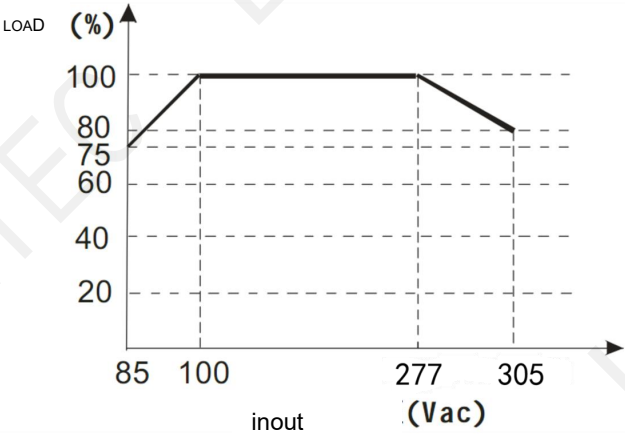


EMC recommended circuit

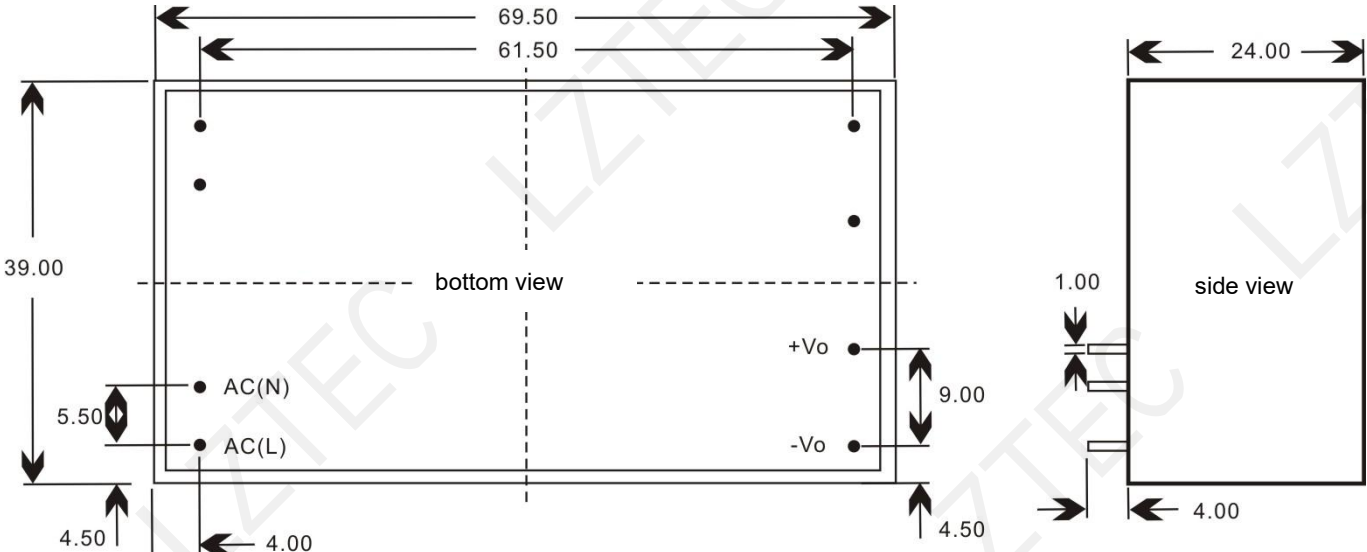


device	Recommended value
MOV	14D561
CY1、CY2	2.2nF/400VAC
CX	0.68uF/310VAC
LCM	>20mH
L1	1.2mH/1A
FUSE	3.15A/250V, slow breaking

INPUT VOLTAGE VERSUS LOAD TEMPERATURE AND LOAD RELATIONSHIP DIAGRAM



APPEARANCE AND SIZE



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

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