

LE02-23S-SERIES

----- STANDARD 2W AC-DC MODULE POWER SUPPLY



Product Features

- Wide voltage input range:85~264VAC (120~370VDC)
- Operating temperature: -30℃~+70℃
- Comprehensive protection features (including self-restoring short-circuit protection)
- High efficiency and high reliability
- Small size, flame-retardant plastic encapsulation
- Industrial product technical design

APPLIED RANGE

Power systems for wireless networks, telecommunications/data communications, power systems, industrial control systems, measurement instruments, and intelligent fields. Ideal for designs requiring wide input range fluctuation, power isolation, and compact PCB space, while enabling modular product functionality and enhanced reliability.

PRODUCT MODEL

Model	Output Voltage Vo	Output Io	Productiveness (TYP)
LE02-23S05	5V	400mA	73%
LE02-23S12	12V	167mA	77%
LE02-23S24	24V	125mA	79%

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

INPUT CHARACTERISTICS

Input voltage range	85~264VAC (120~370VDC)	
Incoming frequency	47~63Hz	
Input currenton	60mA (TYP) @115VAc	40mA (TYP)@ 230VAc
External fuse (recommended)	1A/250V Slow Break	

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)	150mV (typ) (20MHz Bandwidth)
Short-circuit Protection	Short-Circuit Auto-Recovery (Hiccup Mode)
Overvoltage Protection	≥1.1 times

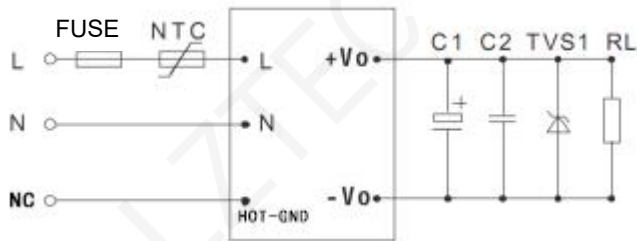
GENERAL CHARACTERISTIC

Temperature Characteristic	Working Temperature	-30°C ~ +70°C
	Power Derating	3.75% / °C ,
	Storage Temperature	-40°C ~ +80°C
	Case Temperature	+90°C max
Power outage duration		40ms(typ)/ at Vin:320Vdc
Humidity		85%RH(max)
Thermoluminescence		0.02%/°C
Switching frequency		65kHz(typ)
Isolation voltage	Input--Output	2500Vac/1Min
Leakage current		<5mA RMS typ. 230VAC/50Hz
* Electromagnetic Compatibility Electrostatic Discharge	IEC/EN 61000-4-2 level 3 6kV/8kV	
* RF radiation immunity	IEC/EN 61000-4-3	
* Electric fast transient pulse train	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
Shell grade		UL94V-0 flame retardant plastic
Install		PCB
MTBF		>200,000h @25°C

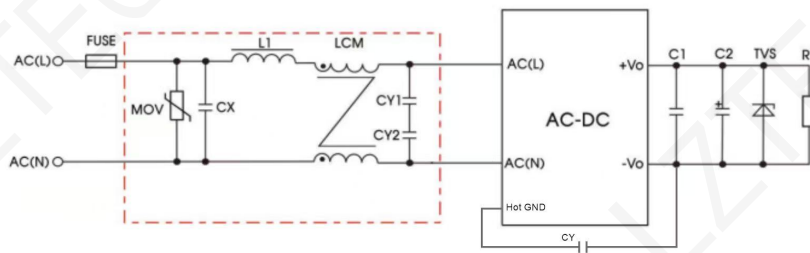
Note:

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



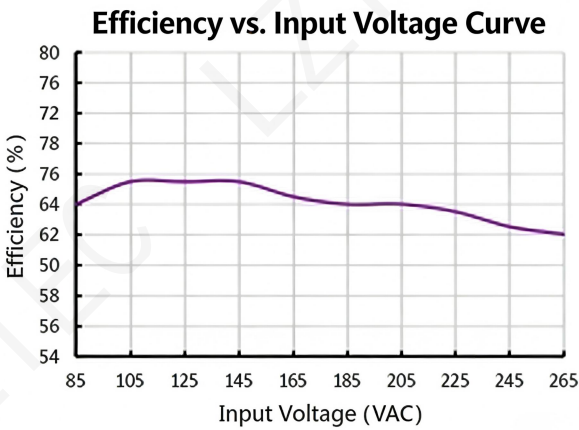
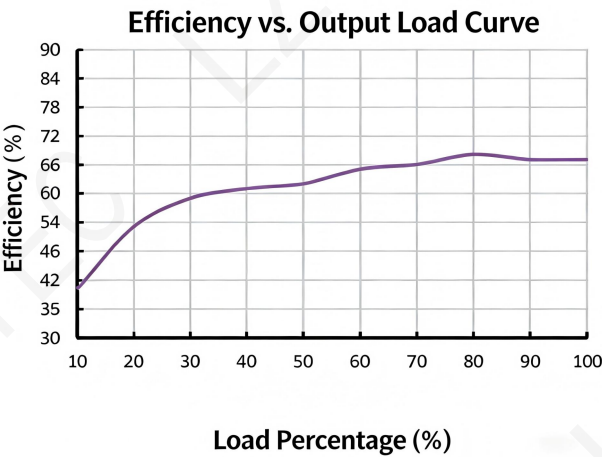
EMC recommended circuit



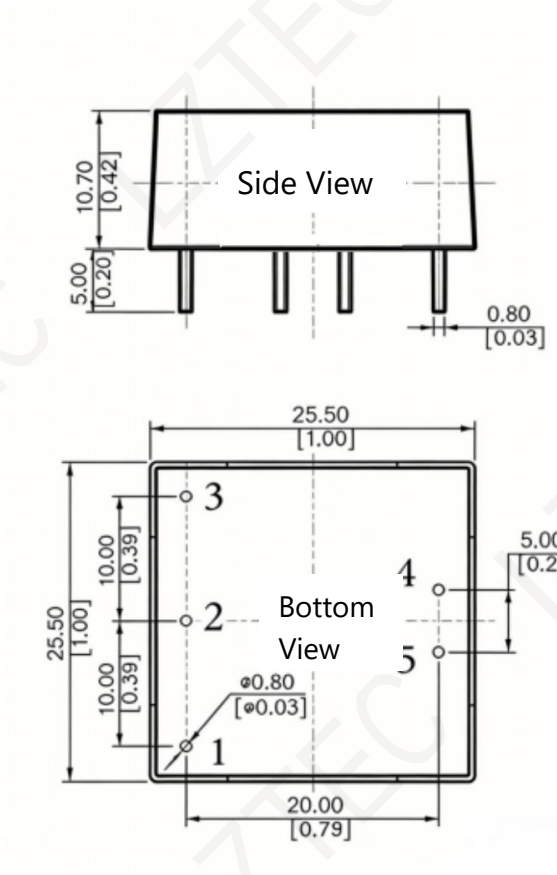
Device	Recommended value
MOV	14D471K
CY1、CY2	1000pF/400VAC
CX	0.1uF/275VAC
LCM	>10mH
L1	4.7uH/2A
FUSE	1A/250V, Slow-Break

EFFICIENCY VS. OUTPUT VOLTAGE PLOT

EFFICIENCY VS. INPUT VOLTAGE PLOT



APPEARANCE AND SIZE



单位：mm

Pin	1	2	3	4	5
Definition	AC(L)	Hot-GND	AC(N)	+Vo	-Vo

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