

LM-10 SERIES**----STANDARD 10W AC-DC MODULE POWER SUPPLY****Product Features**

- Wide voltage input range: 85–305VAC (100–430VDC)
- Operating temperature: -40°C to +85°C
- 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	Efficiency (TYP)
LM-10-S5	5V	2000mA	75%
LM-10-S9	9V	1111mA	80%
LM-10-S12	12V	833mA	80%
LM-10-S15	15V	666mA	81%
LM-10-S24	24V	416mA	82%

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

INPUT CHARACTERISTICS

Input voltage range	85 ~ 305VAC (100 ~ 430VDC)	
Incoming frequency	47 ~ 63Hz	
Input currenton	125mA (TYP) @115VAc	80mA (TYP)@ 230VAc
External fuse (recommended)	2A/300V 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)	100mV(typ) (20MHz Bandwidth)
Short-circuit Protection	can sustain prolonged short circuit with self-recovery
Overvoltage Protection	≥ 1.1 times

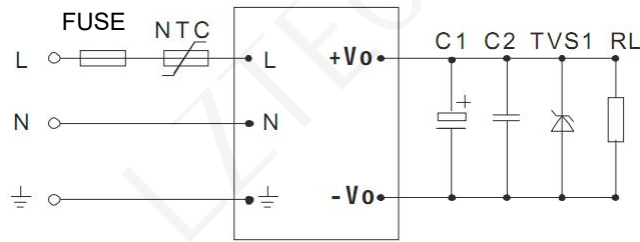
GENERAL CHARACTERISTIC

Temperature Characteristic	Working Temperature	-40°C ~ +85°C
	Power Derating	3.75% / °C ,
	Storage Temperature	-40°C ~ +90°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	4000Vac/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

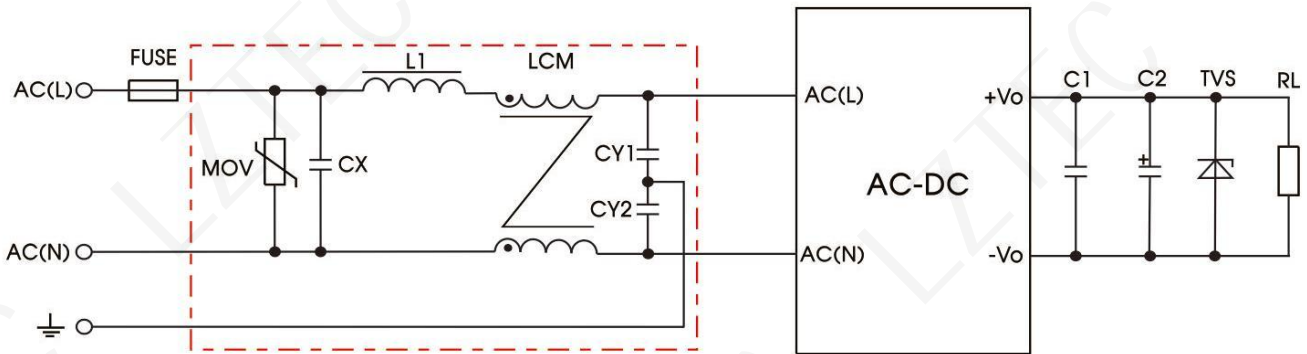
Note: 1. For test items marked with *, an external EMC-recommended circuit must be added.

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

TYPICAL APPLICATION

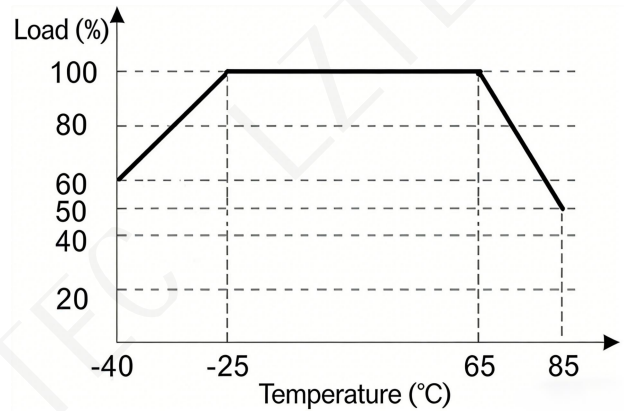
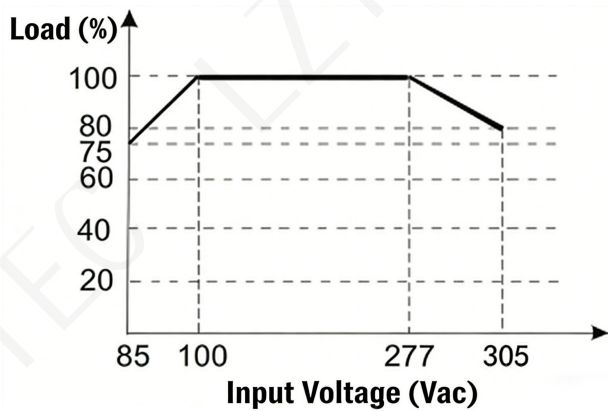


EMC recommended circuit

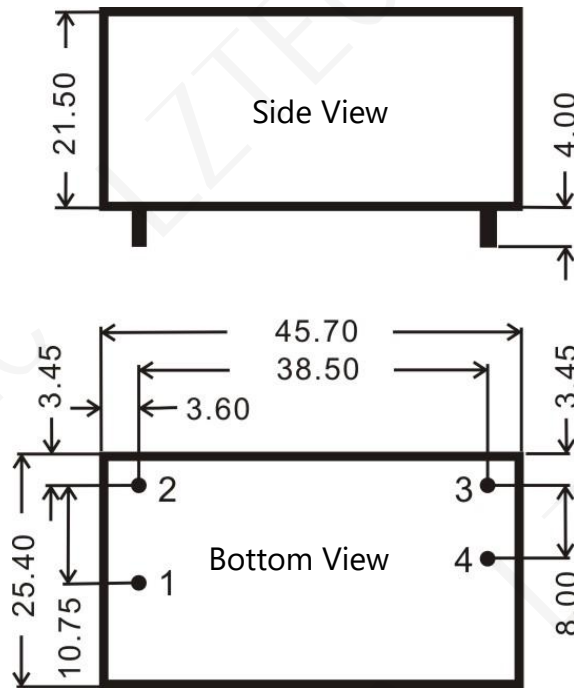


Device	Recommended value
MOV	14D471
CY1、CY2	1000pF/400VAC
CX	0.1uF/275VAC
LCM	>10mH
L1	4.7uH/2A
FUSE	2A/300V, Slow-Break

DIAGRAM OF INPUT VOLTAGE AND LOAD TEMPERATURE AND LOAD RELATIONSHIP DIAGRAM



APPEARANCE AND SIZE



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

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

Zhuhai Lizhi Technology Co., Ltd

E-Mail: sales@lyztec.com

E-Mail: zena.liu@lyztec.com

WEB:WWW.LYZTEC.COM