LM-30 SERIES

----STANDARD 30W AC-DC MODULAR POWER SUPPLY

Product Features

- Wide voltage input range: 85–305VAC (100–430VDC)
- Operating temperature: -40°C to +85°C
- Comprehensive protection features, high efficiency and high reliability
- Stable voltage output with low ripple noise
- 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)
*LM30-S5A1	5V	6000mA	85%
LM30-S9A1	12V	3333mA	87%
LM30-S12A1	12V	2500mA	87%
LM30-S15A1	15V	2000mA	88%
LM30-S24A1	24V	1250mA	88%

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

INPUT CHARACTERISTICS

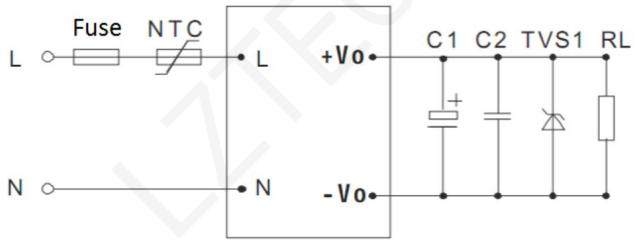
Input voltage range	85 ~ 305VAC （100 ~ 430VDC）	
Incoming frequency	47 ~ 63Hz	
Input currenton	800mA (MAX) @115VAc	500mA (MAX)@ 230VAc
External fuse (recommended)	3.15A/250V slow break	

OUTPUT CHARACTERISTIC

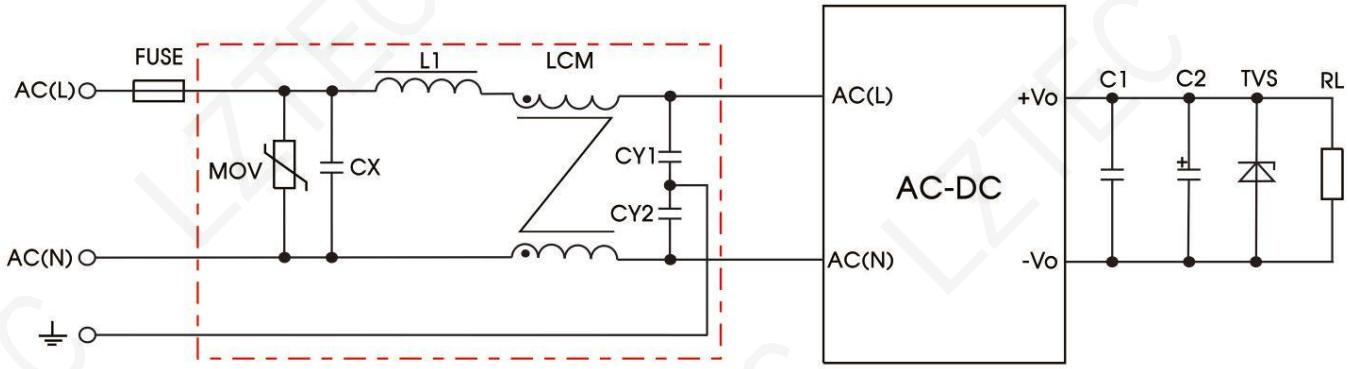
Output voltage regulation accuracy	±2%
Source effect	±0.5% (typ)

Load adjustment rate (10%~100%)	±1% (typ)	
Minimum load	10%	
Output ripple + noise (peak-to-peak)	100mV(typ) (20MHz Bandwidth)	
Short-circuit Protection	Can Sustain Prolonged Short Circuit With Self-recovery	
Overcurrent Protection	≥1.2 times	
GENERAL CHARACTERISTIC		
Temperature Characteristic	Working temperature Power derating Storage temperature	-40℃～+85℃ 3.75%/℃ , -40℃～+90℃
Power Outage Duration		40ms(typ)/ at Vin:320Vdc
Humidity		85%RH(max)
Thermoluminescence		0.02%/℃
Switching Frequency		65kHz(typ)
Isolation Voltage	Input--Output	4000Vac/1Min
Leakage Current		<5mA RMS typ. 230VAC/50Hz
Electromagnetic Compatibility Electrostatic Discharge RF radiation Immunity Electric Fast Transient Pulse Train * Surge		IEC/EN 61000-4-2 level 3 6kV/8kV IEC/EN 61000-4-3 IEC/EN 61000-4-4 level 3 2 kV IEC/EN 61000-4-5 level 3 1kV/2kV
Conduction/Radiation		EN55032 CLASS B
Security Classification		IEC/EN/UL/BS62368-1，GB4943.1，EN61558-1，EN60335-1.
Shell Grade		UL94V-0 flame retardant plastic
Install		PCB
MTBF		>200,000h @25℃

TYPICAL APPLICATION

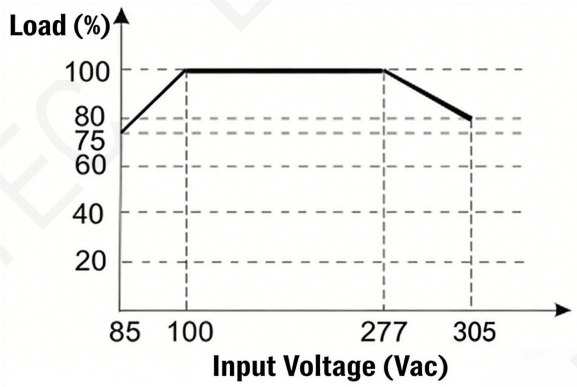


EMC recommended circuit

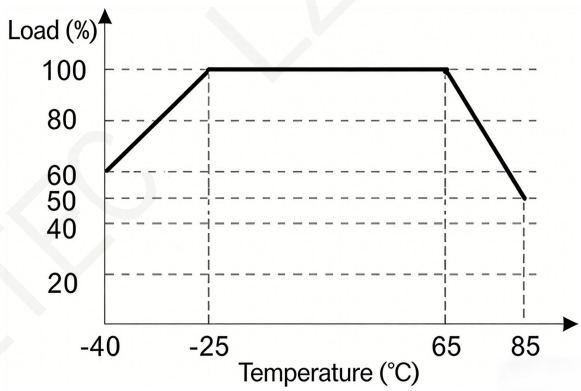


Device	Recommended Value
MOV	14D561
CY1、CY2	2.2nF/400VAC
CX	0.33uF/305VAC
LCM	>20mH
L1	1.2mH/0.5A
FUSE	3.15A/250V, Slow-Break

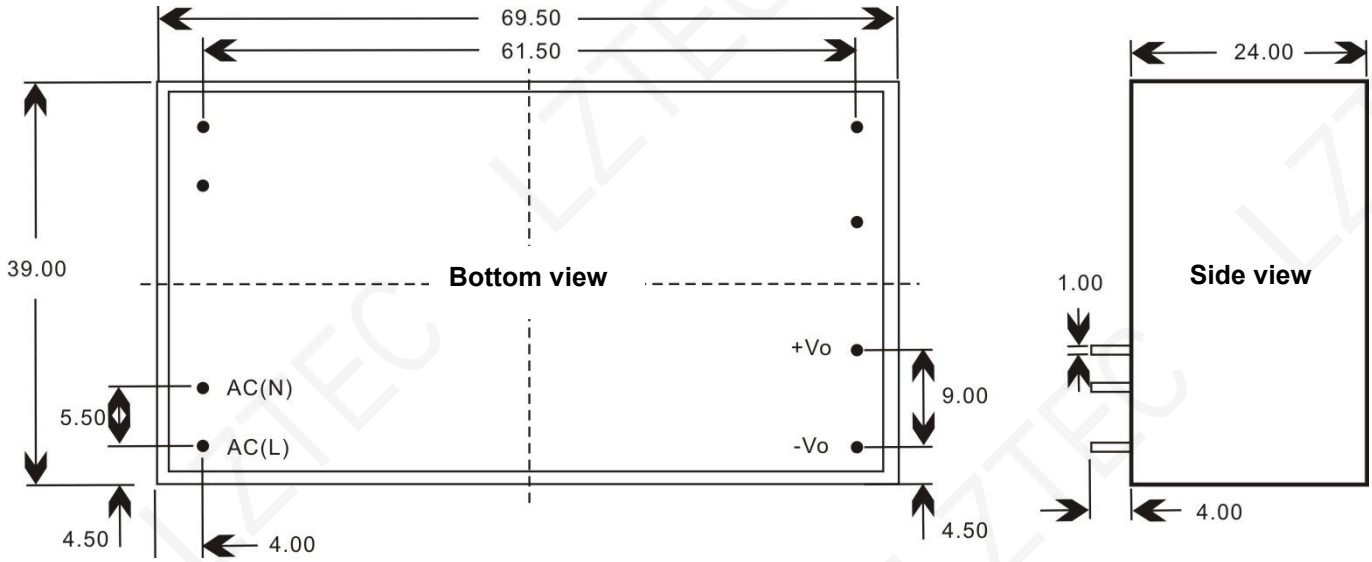
DIAGRAM OF INPUT VOLTAGE AND LOAD



PLOT OF TEMPERATURE VERSUS LOAD



APPEARANCE AND SIZE



Unit: mm Tolerance: ±0.5 mm

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· Unless otherwise stated, all parameters are measured at 230Vac input, rated load and 25℃ ambient temperature.
· Output derating is required at low input voltage, refer to the input derating curve.
· Accuracy includes design tolerance, line regulation and load regulation.
· Ripple & Noise: Measured at 20MHz bandwidth with twisted pair and 0.1μF+47μF parallel terminal capacitors.
· This power supply is a component; system EMC shall be confirmed by the end-equipment manufacturer.
· Start-up time is tested under cold start; frequent power cycling may increase start-up time.
· Input current and safety specs vary slightly with different certifications.
· For altitude over 2000m (6500FT), operating temperature decreases by 3.5℃ per 1000m.