

IRM-10-L

——10W,AC-DC CONVERTER

**Product Introduction**

- Wide Input Voltage Range:65~305VAC (90~430VDC)
- Operating Temperature:-40℃~+85℃
- With protection function for output short circuit & over temperature
- High efficiency, Small size
- Low power consumption, environmental protection friendly
- Industrial standard of product technical design

Application Field

It is widely used in power supply systems like on wireless network, telecommunication/data communication, power system, industrial control system, measuring instrument, intelligent field, etc. This product is suitable for designs which require large input fluctuations, power supply isolation and small layout space, and realize product functional modularization to improve products reliability.

PRODUCT SPECIFICATION

Model	Output Voltage Vo	Output Current Io	Efficiency(TYP)
IRM-10-5	5V	2000mA	79%
IRM-10-9	9V	1100mA	83%
IRM-10-12	12V	833mA	84%
IRM-10-15	15V	666mA	85%
IRM-10-24	24V	416mA	85%

***IF YOU HAVE OTHER REQUIRED SPECIFICATIONS, PLEASE CONTACT WITH US DIRECTLY.**

INPUT SPECIFICATION

Input Voltage Range	65~305VAC (90~430VDC)		
Input frequency	47~440Hz		
Input Current	125mA (TYP) @115VAc	80mA (TYP)@ 230VAc	

External Fuse (Recommended Value)	2A/300V slow fusing
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OUTPUT SPECIFICATION

Input Voltage Range	±2%
Source Effect	±0.5% (typ)
Load Regulation(10%~100%)	±1% (typ)
Min Load	10%
Output Ripple&Noise (Peak-Peak Value)	100mV(typ) (20MHz Bandwidth)
Short-circuit Protection	Continuous, self-recovery
Output Overvoltage Protection	≥1.1 Times

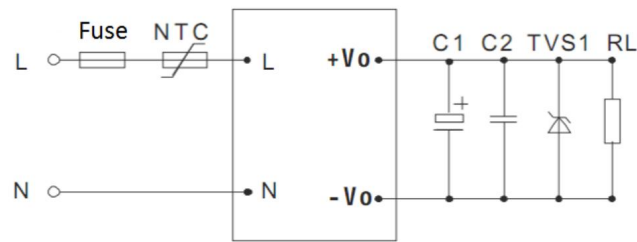
GENERAL SPECIFICATION

Temperature Characteristics	Operating Temperature	-40℃～+85℃		
	Power Derating	3.75% / ℃ ，		
	Storage Temperature	-40℃～+90℃		
	Case Temperature	+90℃ max		
Power Down Time		40ms(typ)/ at Vin:320Vdc		
Humidity		85%RH(max)		
Temperature Drift		0.02%/℃		
Switching Frequency		65kHz(typ)		
Insulation	Input--Output	4000Vac/1Min		
Leakage Current		<5mA 230VAC/50Hz	RMS	typ.
*EMC Electrostatic Discharge	IEC/EN 61000-4-2 level 3 6kV/8kV			
*RF Radiation Immunity	IEC/EN 61000-4-3			
*Electrical Fast Transient/Burst (EFT)	IEC/EN 61000-4-4 level 3 2 kV			
*Surge	IEC/EN 61000-4-5 level 3 1kV/2kV			
*Conduction/Radiation	EN55022, level A			
Safety Class	CLASS I			
Case Material	Plastic Case,UL94V-0			
Installation	PCB			
MTBF	>200,000h @25℃			

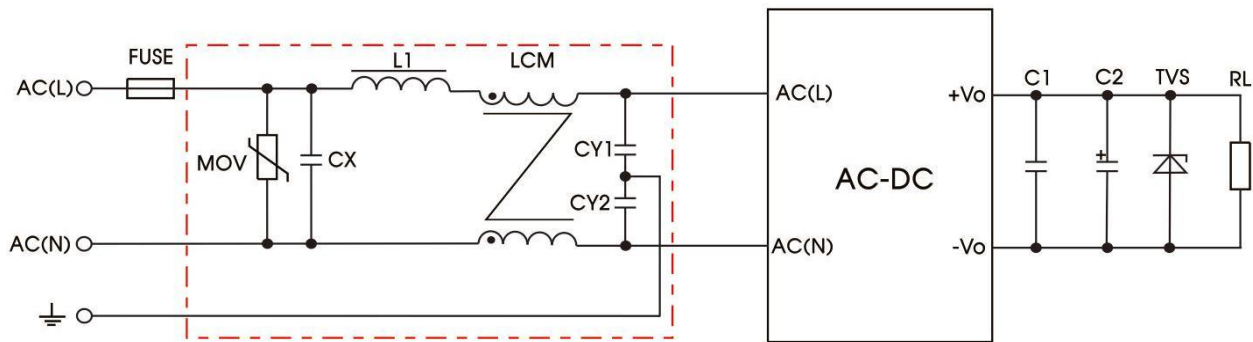
Note:

- 1.The item with * means testing products which need to add EMC recommended circuit.
- 2.Unless otherwise specified, the data listed above all testing under the condition of TA=25℃,humidity<75%.

Typical Application



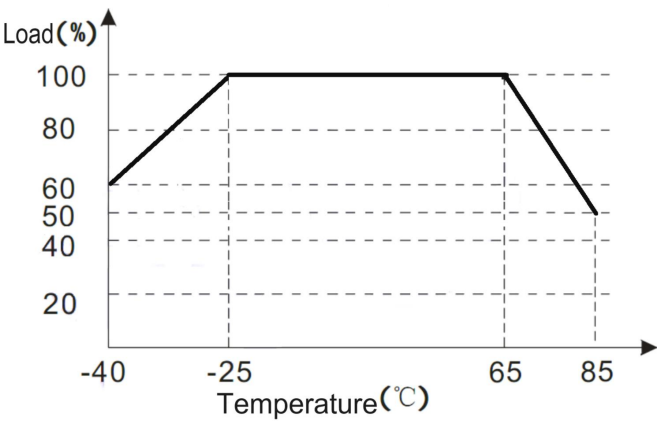
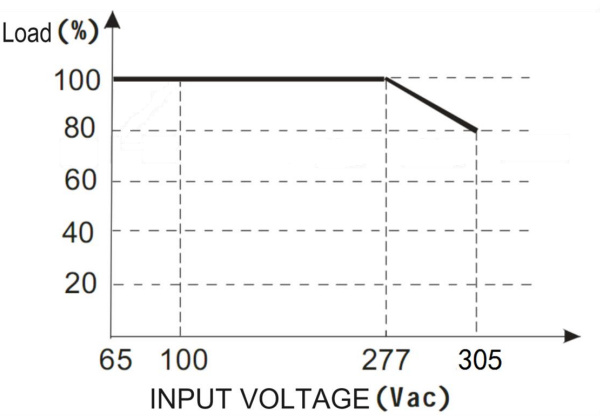
EMC Recommended Circuit



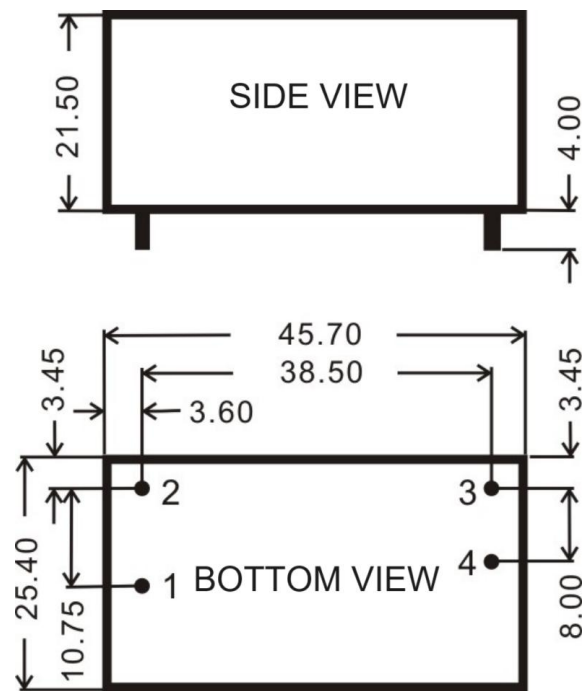
Component	Recommended value
MOV	14D471
CY1、CY2	1000pF/400VAC
CX	0.1uF/305VAC
LCM	>15mH
L1	330uH/2A
FUSE	2A/300V, slow fusing

INPUT VOLTAGE VS LOAD

TEMPERATURE VS LOAD



PACKING DIMENSION AND PIN DEFINITION



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

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

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