

IRM-60 Series

60W Single Output Encapsulated Power Supply



Features

- Universal AC input / Full range
- Compact size
- Protections: Short circuit / Overload / Over Voltage
- Cooling by free air convection
- Isolation class II
- No load power consumption <0.1W
- Pass LPS (except for 5V)
- 100% full load burn-in test
- High reliability
- 3 years warranty

LPS (except for 5V)   **CBCE**

Specification

INPUT	Voltage	85 ~ 264VAC				
	Frequency	47 ~ 440Hz				
	AC Current	1.8A/115VAC		1A/230VAC		
	Efficiency	84%	87.5%	89%	90%	91%
	Inrush Current	Cold Start 30A/115VAC 60A/230VAC				
	Leakage Current	<0.25mA/240VAC				
	OUTPUT	MODEL No.	IRM-60-5	IRM-60-12	IRM-60-15	IRM-60-24
DC Voltage		5V	12V	15V	24V	48V
Rated Current		10A	5A	4A	2.5A	1.25A
Current Range		0 ~ 10A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.25A
Rated Power		50W	60W	60W	60W	60W
R & N (max)		80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p
Voltage Tolerance		±2.5%	±2.5%	±2.5%	±2.5%	±2.5%
Line Regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation		±1.0%	±1.0%	±0.5%	±0.5%	±0.5%
Setup, Rise Time		1000ms, 30ms/230VAC 2000ms, 30ms/115VAC at full load				
Hold Up Time		50ms/230VAC 12ms/115VAC at full load				
PROTECTION	Overload	115% ~ 160% rated output power Protection Type: Hiccup mode, recovers automatically after fault condition is removed				
	Over Voltage	5.25 ~ 6.75V	12.6 ~ 16.2V	15.75 ~ 20.25V	25.2 ~ 32.4V	50.4 ~ 64.8V
		Protection type : Shut off o/p voltage, clamping by zener diode				
ENVIRONMENT	Working Temperature	-30 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp.	-40°C ~ +85°C, 10~95% RH				
	Temp. Coefficient	±0.03%/°C (0~50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1 cycle, period for 60 min. each long X, Y, Z axes				
SAFETY & EMC	Safety Standards	UL60950-1, TUV EN60950-1 approved				
	Withstand Voltage	I/P-O/P:3KVAC				
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH				
	EMC Emission	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3,				
	EMC Immunity Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level (surge L-N:1KV), criteria A					
OTHERS	MTBF	1226Khrs min. MIL-HDBK-217 (25°C)				
	Packaging	PCB mounting style: 0.23Kg;60pcs/14.8Kg/0.97CUFT Screw terminal style: 0.27Kg; 50pcs/14.5Kg/CUFT				

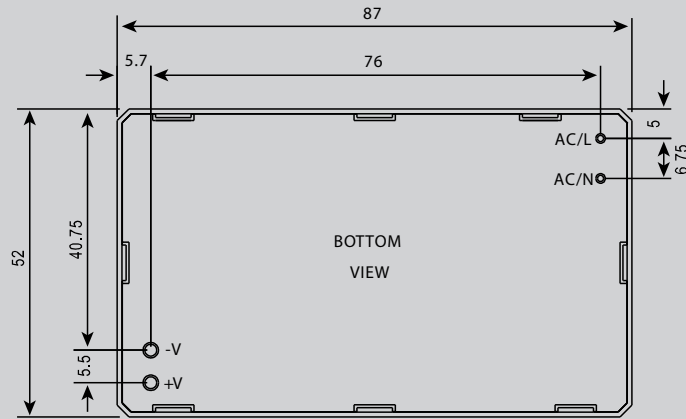
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.

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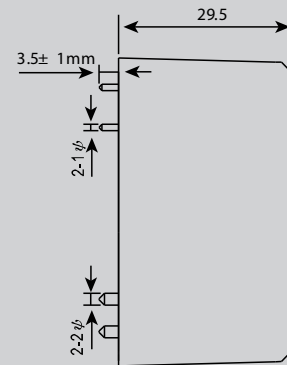
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Mechanical Specification

PCB Mounting Style

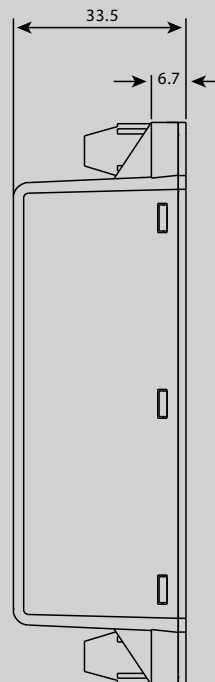
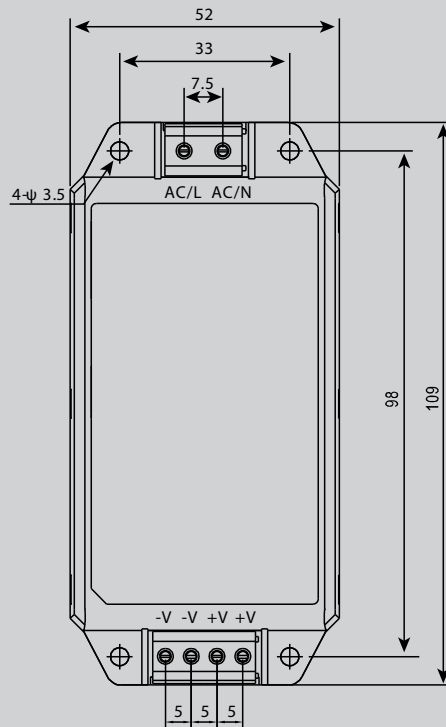


Case No. IRM60 Unit:mm



AC/L, AC/N P/N diameter:1Ψ
+V, -V P/N diameter:2 Ψ

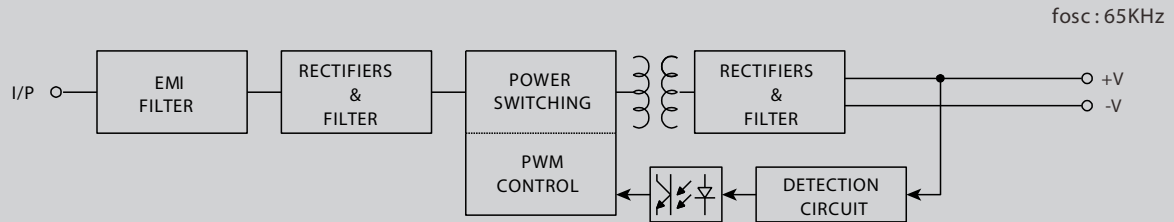
Screw Terminal Style



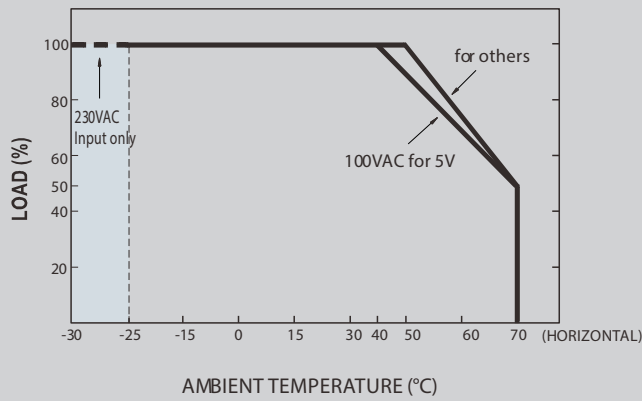
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Block Diagram



Derating Curve



Output Derating VS Input Voltage

