IRM-30 Series

30W 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
- 100% full load burn-in test
- High reliability
- 3 years warranty



Specificatio	n						
INPUT	Voltage	85 ~ 264V					
	Frequency	47 ~ 440Hz					
	AC Current	0.75A/115VAC	0.5A/230VAC				
	Efficiency	83%	88%	88%	88.5%	90%	
	Inrush Current	Cold Start 25A/115VAC 45A/230VAC					
	Leakage Current	<0.25mA/240VAC					
OUTPUT	MODEL No.	IRM-30-5	IRM-30-12	IRM-30-15	IRM-30-24	IRM-30-48	
	DC Voltage	5V	12V	15V	24V	48V	
	Rated Current	6A	2.5A	2A	1.3A	0.63A	
	Current Range	0 ~ 6A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.3A	0 ~ 0.63A	
	Rated Power	30W	30W	30W	31.2W	30.2W	
	R & N (max)	120mVp-p	150mVp-p	200mVp-p	240mVp-p	300mVp-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%	±0.5%	±0.5%	±0.5%	±0.5%	
	Setup, Rise Time	1000ms, 30ms/230VAC 1500ms, 30ms/115VAC at full load					
	Hold Up Time	40ms/230VAC 12ms/115VAC at full load					
PROTECTION	Overload	105% ~ 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 ~ 64V	
		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-0/P:100M 0hms / 500VDC / 25°C / 70% RH					
	EMC Emission	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3,					
	EMC Immunity	Compliance to EN	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level (surge L-N:1KV), criteria A				
OTHERS	MTBF	593.3Khrs min. MIL-HDBK-217 (25°C)					
	Packaging	PCB mounting style: 0.109Kg;144pcs/16.7Kg/0.97CUFT Screw terminal style: 0.12Kg;120pcs/15.4Kg/0.74CFT					

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

Mechanical Specification 69.5 61.5 AC/L AC/L AC/N BOTTOM VIEW BOTTOM VIEW





