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- 1.8"x1"compact size
- Universal input 85~305VAC
- No load power consumption<0.1W</li>
- · EMI Class B without additional components
- Wide operating temp. range -30~70°C
- · Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- · Isolation Class II
- · Pass LPS
- 3 years warranty

# Applications

- Industrial electrical equipment
- Mechanical equipment
- Factory automation equipment
- · Hand-held electronic device

#### GTIN CODE

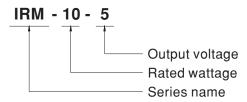
MW Search: https://www.meanwell.com/serviceGTIN.aspx

### Description

IRM-10 is a 10W miniature (45.7\*25.4\*21.5mm) AC-DC module-type power supply, ready to be soldered onto the PCB boards of various kinds of electronic instruments or industrial automation equipments. This product allows the universal input voltage range of 85~305VAC. The 94V-0 flame retardant plastic case and potted with silicone enhance the heat dissipation and meet the anti-vibration demand up to 5G; moreover, it provides the fundamental resistance to dust and moisture.

With the high efficiency up to 82% and the extremely low no-load power consumption below 0.1W, IRM-10 series fulfills the worldwide regulation for the low power consumption requirement for electronics. The entire series is a Class II design (no FG pin), incorporating the built-in EMI filtering components, enabling the compliance with BS EN/EN55032 Class B; the supreme EMC features keep the end electronic units from electromagnetic interference.

# Model Encoding





**SPECIFICATION** 

MODEL		IRM-10-3.3	IRM-10-5	IRM-10-12	IRM-10-15	IRM-10-24
	DC VOLTAGE	3.3V	5V	12V	15V	24V
OUTPUT	RATED CURRENT	2.5A	2A	0.85A	0.67A	0.42A
	CURRENT RANGE	0 ~ 2.5A	0 ~ 2A	0 ~ 0.85A	0 ~ 0.67A	0 ~ 0.42A
	RATED POWER	8.25W	10W	10.2W	10.05W	10.08W
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3		±2.5%	±2.5%	±2.5%	±2.5%
	LINE REGULATION	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.4	600ms, 30ms at full load				
	HOLD UP TIME (Typ.)	30ms/230VAC 8ms/115VAC at full load				
INPUT	VOLTAGE RANGE	85 ~ 305VAC 120 ~ 430VDC				
	FREQUENCY RANGE	47 ~ 440Hz				
	EFFICIENCY (Typ.)	74%	77%	82%	82%	82%
	AC CURRENT (Typ.)	0.25A/115VAC	0.15A/230VAC	0.125A/277VAC	02 /0	02 /0
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC				
	LEAKAGE CURRENT	< 0.25mA/277VAC				
	LLANAGE CONNENT	115%~190% rated output power				
PROTECTION	OVERLOAD		<u> </u>	s automatically after fa	ault condition is rem	oved
			5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	
	OVER VOLTAGE	3.8 ~ 4.95V			17.25 ~ 20.25 V	27.6 ~ 32.4V
		Protection type: Shut off o/p voltage, clamping by zener diode				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SOLDERING TEMPERATURE					
	OPERATING ALTITUDE Note.5					
SAFETY & EMC (Note.6)	SAFETY STANDARDS	IEC62368-1, UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS15598-1 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Parameter	Standard		Test Level / Note	
		Conducted		EN/EN55032(CISPR32), CNS15936		
		Radiated		032(CISPR32), CNS15936	Class B	
		Harmonic Current (Note	,		Class A	
		Voltage Flicker         BS EN/EN61000-3-3            BS EN/EN55035, BS EN/EN61000-6-2				
	EMC IMMUNITY	Parameter	Standard		Test Level /Note	
		ESD	BS EN/EN61	000-4-2	Level 3, 8KV air; Level 2, 4KV contact, criteria A	
		Radiated Susceptibility	BS EN/EN61		Level 3, criteria A	
		EFT/Burest	BS EN/EN61	BS EN/EN61000-4-4 Level 3, criteria A		
		Surge	BS EN/EN61	BS EN/EN61000-4-5 Level 3,1KV/L-N, criteria A		ria A
		Conducted	BS EN/EN61		Level 3, criteria A	
		Magnetic Field	BS EN/EN61	000-4-8	Level 4, criteria A	
		Voltage Dips and interrup	tions BS EN/EN61	BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods
-	MTBF	9094.9K hrs min. Telcordia SR-332 (Bellcore) ; 1495.8K hrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	45.7*25.4*21.5 mm (L*W*H)				
	PACKING	0.033Kg;270pcs/ 9.8Kg/0.94CUFT				
NOTE	Ripple & noise are measure     Tolerance : includes set up     Length of set up time is me     The ambient temperature d     The power supply is consid directives. For guidance on	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  Personance of the second of the s				



