

























Features

- 2.06"x1.07"compact size
- · Universal input 85~305VAC
- No load power consumption<0.1W
- · 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

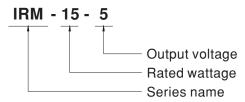
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

IRM-15 is a 15W miniature (52.4*27.2*24mm) 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 83% and the extremely low no-load power consumption below 0.1W, IRM-15 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-15-3.3	IRM-15-5	IRM-15-12	IRM-15-15	IRM-15-24
	DC VOLTAGE	3.3V	5V	12V	15V	24V
OUTPUT	RATED CURRENT	3.5A	3A	1.25A	1A	0.63A
	CURRENT RANGE	0 ~ 3.5A	0 ~ 3A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A
	RATED POWER	11.55W	15W	15W	15W	15.12W
	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	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%
	LOAD REGULATION	±1%	±1%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load				
	HOLD UP TIME (Typ.)	40ms/230VAC 10ms/115VAC at full load				
INPUT	VOLTAGE RANGE	85 ~ 305VAC 120 ~ 430VDC				
	FREQUENCY RANGE	47 ~ 440Hz				
		74%	700/	020/	0.20/	020/
	EFFICIENCY (Typ.)		78%	82%	82%	83%
	AC CURRENT (Typ.)	0.35A/115VAC				
	INRUSH CURRENT (Typ.)					
	LEAKAGE CURRENT	< 0.25mA/277VAC				
PROTECTION	OVERLOAD	115%~190% rated or	· · ·			
		7.	•	rs automatically after		
	OVER VOLTAGE	3.8 ~ 4.95V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
		Protection type : Shut off o/p voltage, clamping by zener diode				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
ENVIRONMENT	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.4					
SAFETY & EMC (Note.5)	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				
		Parameter Standard Test Level / Note				
	EMC EMISSION	Conducted		032(CISPR32), CNS15936		
		Radiated		032(CISPR32), CNS15936		
		Harmonic Current (Note 5)) BS EN/EN61	000-3-2	Class A	
		Voltage Flicker	BS EN/EN61	000-3-3		
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61000-6-2				
		Parameter	Standard		Test Level /Note	
		ESD	BS EN/EN61		Level 3, 8KV air; Level	2, 4KV contact, criteria A
		Radiated Susceptibility	BS EN/EN61		Level 3, criteria A	
		EFT/Burest	BS EN/EN61		Level 3, criteria A	
		Surge	BS EN/EN61		Level 4,2KV/L-N, criteria A	
		Conducted Magnetic Field	BS EN/EN61		Level 3, criteria A Level 4, criteria A	
					>95% dip 0. 5 period:	s, 30% dip 25 periods,
		voltage Dips and interruptions BS ENVENOTIOUS-4-11 >95% interruptions 2				· · · · · · · · · · · · · · · · · · ·
OTHERS	MTBF	10656.2K hrs min. Telcordia SR-332 (Bellcore) ; 970.3K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	52.4*27.2*24mm (L*W*H)				
	PACKING	0.05Kg/240pcs/13Kg/0.94CUFT				
NOTE	Ripple & noise are measure Tolerance : includes set up The ambient temperature d The power supply is consid directives. For guidance on (as available on https://www.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. to tolerance, line regulation and load regulation. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f dered as an independent unit ,but the final equipment still need to re-confirm that the whole system complies with the EMC in how to perform these EMC tests, please refer to "EMI testing of component power supplies." w.meanwell.com//Upload/PDF/EMI_statement_en.pdf) or: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				
	•ו Product Liability Disclaimer	 For detailed information 	i, please refer to https:	//www.meanwell.com/serv	riceDisclaimer.aspx	



