



























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

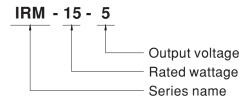
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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	IRN	M-15-15	IRM-15-24	
	DC VOLTAGE	3.3V	5V	12V	15\	/	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	15\	V	15.12W	
	RIPPLE & NOISE (max.) Note.2		200mVp-p	200mVp-p	200)mVp-p	200mVp-p	
	VOLTAGE TOLERANCE Note.3		±2.5%	±2.5%		5%	±2.5%	
	LINE REGULATION	±0.5%	±0.5%	±0.3%		3%	±0.3%	
	LOAD REGULATION	±1%	±1%	±0.5%		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						
	VOLTAGE RANGE	85 ~ 305VAC 120 ~ 430VDC						
INPUT								
	FREQUENCY RANGE	47 ~ 440Hz						
	EFFICIENCY (Typ.)	74%	78%	82%	82%	<u>6</u>	83%	
	AC CURRENT (Typ.)	0.35A/115VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC						
	LEAKAGE CURRENT							
PROTECTION	OVERLOAD	115%~190% rated output power						
		Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	3.8 ~ 4.95V	5.75 ~ 6.75\	/ 13.8 ~ 16.2	2V 17.	25 ~ 20.25V	27.6 ~ 32.4V	
		Protection type : Shut off of	o/p voltage, clan	ping by zener diode				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 $^{\circ}$ 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.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						
	EMC EMISSION	Parameter	Stand		Test Le	vel / Note		
		Conducted		N/EN55032(CISPR32), CN				
		Radiated		N/EN55032(CISPR32), CN				
		Harmonic Current (Note 5)) BS EI	N/EN61000-3-2	Class A	Class A		
		Voltage Flicker	BS E	N/EN61000-3-3				
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61000-6-2						
		Parameter	Stand	lard	Test Lo	evel /Note		
		ESD		N/EN61000-4-2	Level	3, 8KV air; Level 2	, 4KV contact, criteria A	
		Radiated Susceptibility		N/EN61000-4-3		Level 3, criteria A		
		EFT/Burest		N/EN61000-4-4		B, criteria A	. A	
		Surge		N/EN61000-4-5		Level 4,2KV/L-N, criteria A		
		Conducted Magnetic Field		N/EN61000-4-6 N/EN61000-4-8		Level 3, criteria A Level 4, criteria A		
						-	30% dip 25 periods,	
						>95% interruptions 250 periods		
	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	w.meanwell.com//Upload/PDF/EMI_statement_en.pdf) r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						



