



Наличие и актуальные цены на

IRM-05-5

<https://www.mean-well.ru/store/IRM-05-5/>



■ Features

- 1.8"x1" 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>

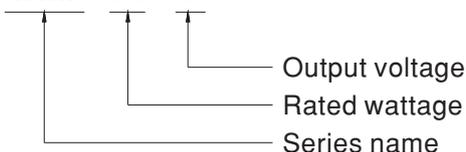
■ Description

IRM-05 is a 5W 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 77% and the extremely low no-load power consumption below 0.1W, IRM-05 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

IRM - 05 - 5

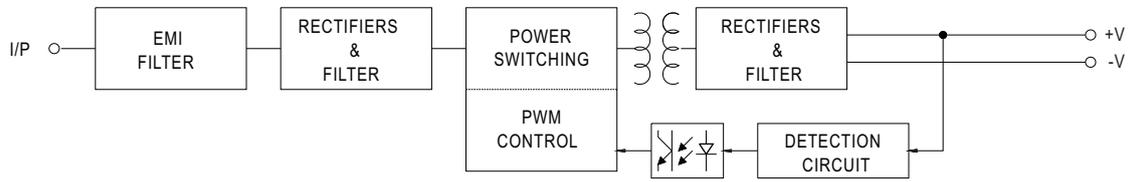


SPECIFICATION

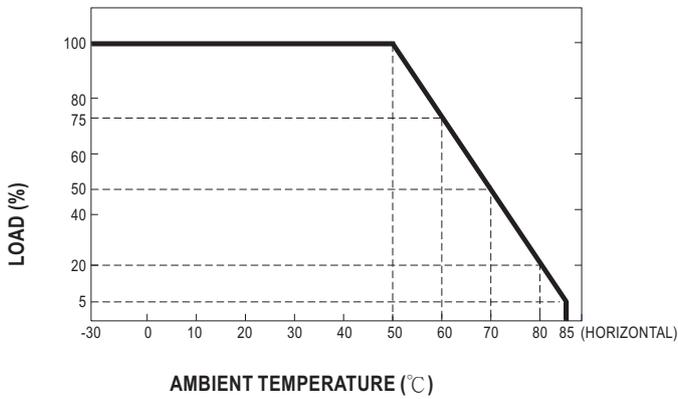
MODEL		IRM-05-3.3	IRM-05-5	IRM-05-12	IRM-05-15	IRM-05-24
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V
	RATED CURRENT	1.25A	1A	0.42A	0.33A	0.23A
	CURRENT RANGE	0 ~ 1.25A	0 ~ 1A	0 ~ 0.42A	0 ~ 0.33A	0 ~ 0.23A
	RATED POWER	4.125W	5W	5.04W	4.95W	5.52W
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.5%	±2.5%	±2.5%	±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.)	80ms/230VAC	15ms/115VAC at full load			
INPUT	VOLTAGE RANGE	85 ~ 305VAC 120 ~ 430VDC				
	FREQUENCY RANGE	47 ~ 440Hz				
	EFFICIENCY (Typ.)	68%	71%	75%	75%	77%
	AC CURRENT (Typ.)	0.12A/115VAC	0.08A/230VAC	0.06A/277VAC		
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC		40A/230VAC		
	LEAKAGE CURRENT	< 0.25mA/277VAC				
PROTECTION	OVERLOAD	115% ~ 260% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	3.8 ~ 4.95V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
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	Wave soldering: 265°C, 5s (max.); Manual soldering: 390°C, 3s (max.)				
	OPERATING ALTITUDE Note.5	2000 meters				
SAFETY & EMC (Note.6)	SAFETY STANDARDS	IEC62368-1, UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 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		BS EN/EN55032(CISPR32), CNS13438		Class B
		Radiated		BS EN/EN55032(CISPR32), CNS13438		Class B
		Harmonic Current (Note 5)		BS EN/EN61000-3-2		Class A
		Voltage Flicker		BS EN/EN61000-3-3		-----
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61000-6-2				
		Parameter		Standard		Test Level /Note
ESD		BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A		
Radiated Susceptibility		BS EN/EN61000-4-3		Level 3, criteria A		
EFT/Burest		BS EN/EN61000-4-4		Level 3, criteria A		
Surge		BS EN/EN61000-4-5		Level 3, 1KV/L-N, criteria A		
Conducted		BS EN/EN61000-4-6		Level 3, criteria A		
Magnetic Field		BS EN/EN61000-4-8		Level 4, criteria A		
Voltage Dips and interruptions		BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	9083.9K hrs min. Telcordia SR-332 (Bellcore) ; 1495.8K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	45.7*25.4*21.5 mm (L*W*H)				
	PACKING	0.033Kg;270pcs/ 9.8Kg/0.94CUFT				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF & 47 μF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</p> <p>5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>6. The power supply is considered as an independent unit ,but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>					

■ Block Diagram

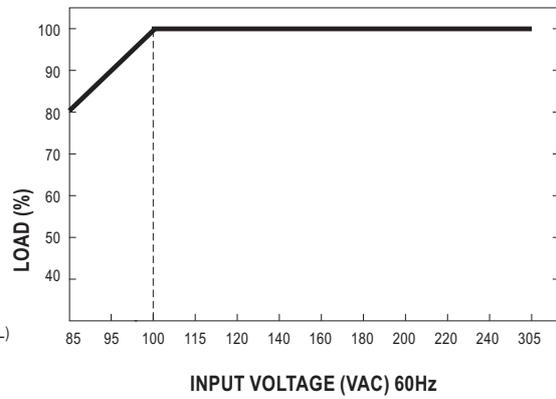
fosc : 65KHz



■ Derating Curve



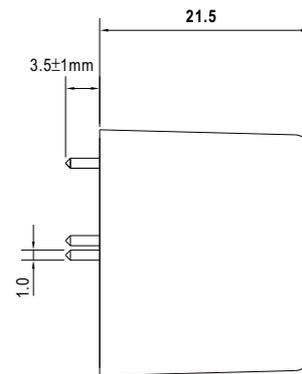
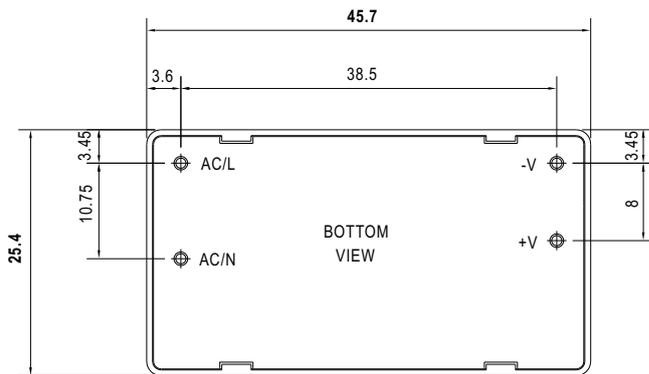
■ Output Derating VS Input Voltage



■ Mechanical Specification

(Unit:mm[inch], Tolerance:±0.5[±0.02])

Case No.222A



P/N diameter:1.0

■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>