

Наличие и актуальные цены на

IRM-90-15

https://www.mean-well.ru/store/IRM-90-15/











(IRM-90-xxST)





















Features

- 3.43"x2.05"compact size
- PCB, chassis or screw terminal mounting version
- · Universal input 80~305VAC
- No load power consumption<0.3W
- EMI BS EN/EN55032 ClassB without additional components
- Wide operating temp. rage -30~80°C
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- Isolation Class Ⅱ
- Over voltage category III
- Operating attitude up to 4000 meters (Note.7)
- 100W peak(10 sec.)
- · 3 years warranty









Applications

- · Industrial electrical equipment
- · Mechanical equipment
- Factory automation equipment
- · Handheld electronic device

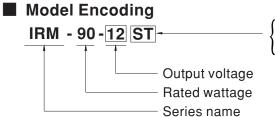
GTIN CODE

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

Description

IRM-90 is a 90W miniature (87*52*29.5mm) AC-DC PCB-mount 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 80~305VAC. The 94V-0 flame retardant plastic case and potted with silicone enhance the heat dissipation and meet the anti-vibration demand up to 2~5G anti-vibration by model; moreover, it provides the fundamental resistance to dust and moisture.

With the high efficiency up to 93% and the extremely low no-load power consumption below 0.3W, IRM-90 series fulfills the worldwide regulation for the low power consumption requirement for electronics. The entire series is a Class Π 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 from electromagnetic interference. In addition to the PCB mounting style model, IRM-90 series also offers the screw terminal style model (ST).



: PCB mounting style : Screw terminal style

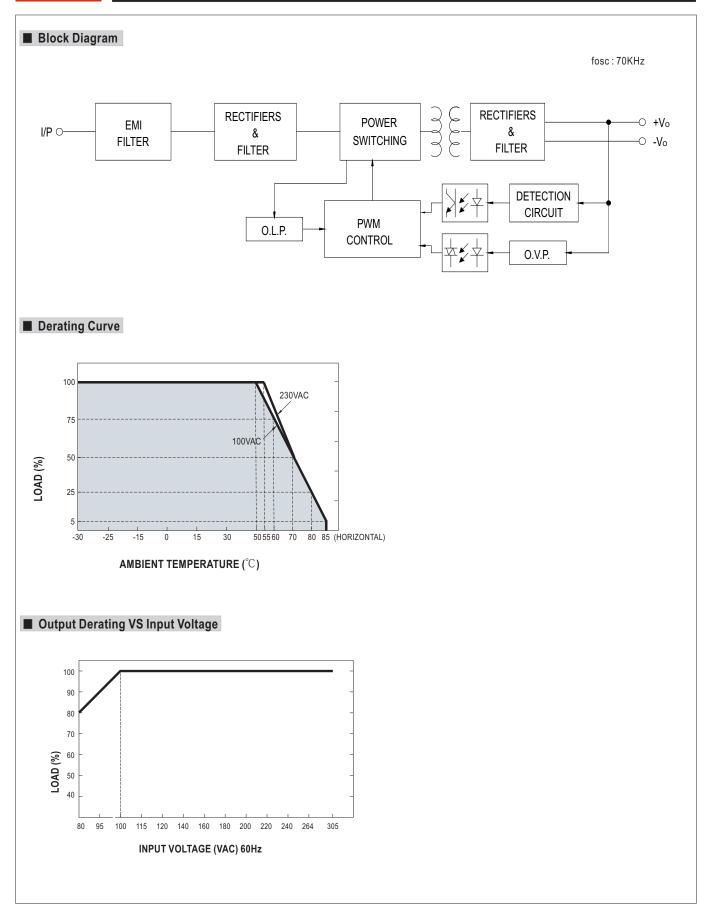


90W AC-DC PCB-Mount Green Power Module

SPECIFICATION

MODEL	MODEL		IRM-90-12	IRM-90-15	IRM-90-24	IRM-90-48
	DC VOLTAG	E	12V	15V	24V	48V
	OUDDENT	Peak(10 sec.)	7.37A	6.23A	4.13A	2.07A
	CURRENT	Convection	6.7A	5.67A	3.75A	1.88A
	RATED	Peak(10 sec.)Note.2	88.4W	93.5W	99W	99.2W
	POWER	Convection	80.4W	85.05W	90W	90.2W
	RIPPLE & NOISE (max.) Note.3		120mVp-p	150mVp-p	200mVp-p	240mVp-p
OUTPUT	VOLTAGE TOLERANCE Note.4			±2.0%	±2.0%	±2.0%
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION		±1.0%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME		1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load			
	HOLD UP TIME (Typ.)		30ms/230VAC 10ms/115VAC at full load			
	VOLTAGE RANGE Note.5		80 ~ 305VAC 113 ~ 431VDC			
	FREQUENCY RANGE		47 ~ 63Hz			
				00.50/	000/	029/
INPIII -	EFFICIENCY (Typ.)		92%	92.5%	93%	93%
	AC CURRENT (Typ.)		1.9A/115VAC 1.1A/230VAC			
	INRUSH CURRENT (Typ.)		COLD START 30A/115VAC 65A/230VAC			
	LEAKAGE CURRENT (max.) Note.6					
	OVERLOAD OVER VOLTAGE		115% ~ 160% rated output power			
PROTECTION			Protection type : Hiccup mode, r	· · · · · · · · · · · · · · · · · · ·		
			12.6 ~ 16.2V	15.8 ~ 20.3V	25.2 ~ 32.4V	50.4 ~ 64.8V
	OVER VOLIAGE		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE		Protection type : Shut down o/p voltage, re-power on to recover			
	WORKING TEMP.		-30 ~ +80°C (Refer to "Derating Curve")			
	WORKING HUMIDITY		20 ~ 90% RH non-condensing			
ENVIRONMENT	STORAGE TEMP.		-40 ~ +85°C			
	TEMP. COEFFICIENT		±0.03%/°C (0~50°C)			
	SOLDERING TEMPERATURE		Wave soldering: 265°C,5s (max.); Manual soldering: 390°C,3s (max.)			
	VIBRATION		Blank:10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
			ST:10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes			
	OPERATING ALTITUDE Note.7		Ⅲ; EN62368-1;altitude up to 2000 meters			
	SAFETY STANDARDS		IEC62368-1, IEC60335-1, Dekra BS EN/EN60335-1,BS EN/EN62368-1,UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved			
	WITHSTAND VOLTAGE		I/P-O/P:4KVAC			
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION		Parameter	Standard		Test Level / Note
			Conducted	BS EN/EN55032 (CISPR3	2),BS EN/EN55014-1	Class B
			Radiated	BS EN/EN55032 (CISPR3	2),BS EN/EN55014-1	Class B
			Harmonic Current	BS EN/EN61000-3-2		Class A
SAFETY &			Voltage Flicker	BS EN/EN61000-3-3		
	EMC IMMUNITY		BS EN/EN55035, BS EN/EN61000-6-2,BS EN/EN55014-2			
EMC (Note 8)			Parameter	Standard		Test Level / Note
(,			ESD	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A
			DE field augeentibility	BS EN/EN61000-4-3		
			RF field susceptibility			Level 3, criteria A
			EFT bursts	BS EN/EN61000-4-4		Level 3, criteria A
			Surge susceptibility	BS EN/EN61000-4-5		Level 4,2KV/L-N, criteria A
			Conducted susceptibility	BS EN/EN61000-4-6		Level 3, criteria A
			Magnetic field immunity	BS EN/EN61000-4-8		Level 4, criteria A
			Voltage dip, interruption	BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods,
			5000 41/1 . T.I. II 01		MILLIPPIC 047E	>95% interruptions 250 periods
	MTBF		5088.4K hrs min. Telcordia SR-332 (Bellcore) ; 609.9K hrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION		PCB mounting style : 87*52*29.5mm (L*W*H) Screw terminal style : 109*52*33.5mm (L*W*H)			
	PACKING PCB mounting style : 0.197Kg;60pcs/11.8Kg/0.94CUFT Screw terminal style : 0.219Kg;50pcs/12Kg/0.56CUFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. Leakage current was measured from primary input to DC output. 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 The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets 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) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 					
	File Name:IRM-90-SPEC 2024-10					





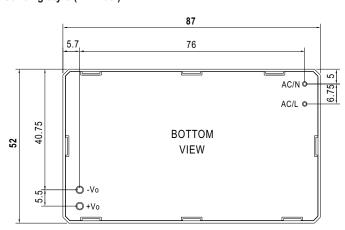
Case No.IRM60

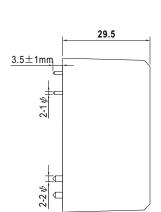


■ Mechanical Specification

(Unit:mm, Tolerance:±1mm)

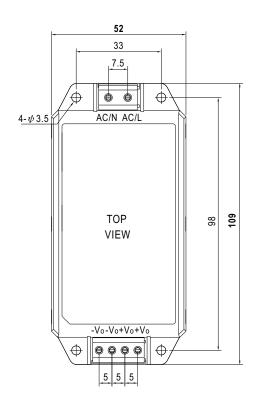
• PCB mounting style (IRM-90)

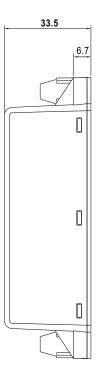




AC/L, AC/N P/N diameter:1 ψ +Vo, -Vo P/N diameter:2 ψ

• Screw terminal style (IRM-90-xxST)





■ Installation Manual

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