

Green Open Frame

30~90W AC/DC PCB-mount Power Module



Features

- Universal AC input up to 305VAC
- No load power consumption < 0.1W (<0.21W for IRM-90)
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation Class II
- Fully isolated plastic case
- Comply with EN55032 class B without any additional components
- High operating temperature up to +80°C
- Withstand 5G vibration test
- Low cost, high reliability
- Pass LPS (except for IRM-45/60 5V and IRM-90)
- Over voltage category III
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	IRM-30-x[ST]	IRM-45-x[ST]	IRM-60-x[ST]	IRM-90-x[ST]
AC input voltage range	85~305VAC			80~305VAC
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC		Cold start, 30A at 115VAC, 60A at 230VAC	
Overload protection	105%~160%		115%~160%	
Over voltage protection	105%~135%			
Setup, rise, hold up time	1000ms, 30ms, 40ms at 230VAC		1000ms, 30ms, 50ms at 230VAC	
Leakage current	<0.25mA at 240VAC		<0.1mA at 240VAC	
Withstand voltage	I/P-O/P: 4kVAC		I/P-O/P: 4kVAC	
Working temperature	-30~+70°C (refer to output derating curve)			-30~+80°C
Vibration	10~500Hz, 5G 10min./1 cycle, period for 60 min. each along X, Y, Z axes			
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004, EN60335-1(IRM-90 by request); BSMI CNS14336-1 (except for IRM-90) approved			
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020			
Connection	4 industrial pins			
Dimension (LxWxH)(mm)	PCB mounting: 69.5x 39x 24; Screw I/O: 91x 39.5x 28.5		PCB mounting: 87x 52x 29.5; Screw I/O: 109x 52x 33.5	

30W

IRM-30

Model No.	Output	Tol.	R&N	Effi.
IRM-30-5□	5V, 0~6A	±2.5%	120mV	83%
IRM-30-12□	12V, 0~2.5A	±2.5%	150mV	88%
IRM-30-15□	15V, 0~2A	±2.5%	200mV	88%
IRM-30-24□	24V, 0~1.3A	±2.5%	240mV	88.5%
IRM-30-48□	48V, 0~0.63A	±2.5%	300mV	90%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

60W

IRM-60

Model No.	Output	Tol.	R&N	Effi.
IRM-60-5□	5V, 0~10A	±2.5%	80mV	84%
IRM-60-12□	12V, 0~5A	±2.5%	120mV	87.5%
IRM-60-15□	15V, 0~4A	±2.5%	120mV	89%
IRM-60-24□	24V, 0~2.5A	±2.5%	150mV	90%
IRM-60-48□	48V, 0~1.25A	±2.5%	240mV	91%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

45W

IRM-45

Model No.	Output	Tol.	R&N	Effi.
IRM-45-5□	5V, 0~8A	±2.5%	80mV	83.5%
IRM-45-12□	12V, 0~3.8A	±2.5%	150mV	87.5%
IRM-45-15□	15V, 0~3A	±2.5%	180mV	88.5%
IRM-45-24□	24V, 0~1.9A	±2.5%	200mV	89.5%
IRM-45-48□	48V, 0~0.94A	±2.5%	300mV	90.5%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

90W

NEW IRM-90

Model No.	Output	Tol.	R&N	Effi.
IRM-90-12□	12V, 0~6.7A	±2%	120mV	92%
IRM-90-15□	15V, 0~6.23A	±2%	150mV	92.5%
IRM-90-24□	24V, 0~3.75A	±2%	200mV	93%
IRM-90-48□	48V, 0~1.88A	±2%	240mV	93%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style