

Green Open Frame

1~20W AC/DC Miniature Encapsulated Type



Features

- Universal AC input / Full range
- No load power consumption < 0.075W (<0.1W for IRM-05~20)
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation Class II
- Comply with EN55022 class B without any additional components
- Fully isolated plastic case
- Withstand 5G vibration test
- Low cost, high reliability
- Pass LPS
- 3 years warranty

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



| Model No. | IRM-01-x[S] | IRM-02-x[S] | IRM-03-x[S] | IRM-05 | IRM-10 | IRM-15 | IRM-20 |
|-------------------------|--|-------------|------------------------------------|--|-----------|----------------|-----------|
| AC input voltage range | 85~305VAC | | | 85~264VAC; 120~370VDC | | | |
| Overload protection | >110% | | 105%~260% | 115%~260% | 115%~190% | | 115%~160% |
| Over voltage protection | 115%~135% rated output voltage | | | | | | |
| Withstand voltage | I/P-O/P: 3kVAC | | | | | | |
| Working temperature | -30~+85°C | | | -30~+70°C (refer to output derating curve) | | | |
| Safety standards | UL60950-1, TUV EN60950-1 approved; Design refer to IEC60601-1 for IRM-01/02/03 | | | | | | |
| EMC standards | EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 | | | | | | |
| Dimension (LxWxH)(mm) | PCB: 33.7x 22.2x 15 SMD: 33.7x 22.2x 16 | | PCB: 37x 24x 15 SMD: 37x 24x 16 | 45.7x 25.4x 21.5 | | 52.4x 27.2x 24 | |

1W NEW IRM-01

| Model No. | Output | Tol. | R&N | Effi. |
|-------------|---------------|-------|-------|-------|
| IRM-01-3.3□ | 3.3V, 0~300mA | ±2.5% | 150mV | 66% |
| IRM-01-5□ | 5V, 0~200mA | ±2.5% | 150mV | 70% |
| IRM-01-9□ | 9V, 0~111mA | ±2.5% | 150mV | 72% |
| IRM-01-12□ | 12V, 0~83mA | ±2.5% | 150mV | 74% |
| IRM-01-15□ | 15V, 0~67mA | ±2.5% | 200mV | 75% |
| IRM-01-24□ | 24V, 0~42mA | ±2.5% | 240mV | 77% |

□ = Blank, S ; Blank: PCB mounting style, S: SMD type

2W NEW IRM-02

| Model No. | Output | Tol. | R&N | Effi. |
|-------------|---------------|-------|-------|-------|
| IRM-02-3.3□ | 3.3V, 0~600mA | ±2.5% | 150mV | 66% |
| IRM-02-5□ | 5V, 0~400mA | ±2.5% | 150mV | 70% |
| IRM-02-9□ | 9V, 0~222mA | ±2.5% | 150mV | 72% |
| IRM-02-12□ | 12V, 0~167mA | ±2.5% | 150mV | 74% |
| IRM-02-15□ | 15V, 0~133mA | ±2.5% | 200mV | 75% |
| IRM-02-24□ | 24V, 0~83mA | ±2.5% | 240mV | 77% |

□ = Blank, S ; Blank: PCB mounting style, S: SMD type

3W NEW IRM-03

| Model No. | Output | Tol. | R&N | Effi. |
|-------------|---------------|-------|-------|-------|
| IRM-03-3.3□ | 3.3V, 0~900mA | ±2.5% | 100mV | 68% |
| IRM-03-5□ | 5V, 0~600mA | ±2.5% | 100mV | 72% |
| IRM-03-9□ | 9V, 0~333mA | ±2.5% | 100mV | 77% |
| IRM-03-12□ | 12V, 0~250mA | ±2.5% | 150mV | 78% |
| IRM-03-15□ | 15V, 0~200mA | ±2.5% | 200mV | 78% |
| IRM-03-24□ | 24V, 0~125mA | ±2.5% | 240mV | 80% |

□ = Blank, S ; Blank: PCB mounting style, S: SMD type

5W IRM-05

| Model No. | Output | Tol. | R&N | Effi. |
|------------|---------------|-------|-------|-------|
| IRM-05-3.3 | 3.3V, 0~1.25A | ±2.5% | 200mV | 68% |
| IRM-05-5 | 5V, 0~1A | ±2.5% | 200mV | 71% |
| IRM-05-12 | 12V, 0~0.42A | ±2.5% | 200mV | 75% |
| IRM-05-15 | 15V, 0~0.33A | ±2.5% | 200mV | 75% |
| IRM-05-24 | 24V, 0~0.23A | ±2.5% | 200mV | 77% |

10W IRM-10

| Model No. | Output | Tol. | R&N | Effi. |
|------------|--------------|-------|-------|-------|
| IRM-10-3.3 | 3.3V, 0~2.5A | ±2.5% | 200mV | 74% |
| IRM-10-5 | 5V, 0~2A | ±2.5% | 200mV | 77% |
| IRM-10-12 | 12V, 0~0.85A | ±2.5% | 200mV | 82% |
| IRM-10-15 | 15V, 0~0.67A | ±2.5% | 200mV | 82% |
| IRM-10-24 | 24V, 0~0.42A | ±2.5% | 200mV | 82% |

15W IRM-15

| Model No. | Output | Tol. | R&N | Effi. |
|------------|--------------|-------|-------|-------|
| IRM-15-3.3 | 3.3V, 0~3.5A | ±2.5% | 200mV | 74% |
| IRM-15-5 | 5V, 0~3A | ±2.5% | 200mV | 78% |
| IRM-15-12 | 12V, 0~1.25A | ±2.5% | 200mV | 82% |
| IRM-15-15 | 15V, 0~1A | ±2.5% | 200mV | 82% |
| IRM-15-24 | 24V, 0~0.63A | ±2.5% | 200mV | 83% |

20W IRM-20

| Model No. | Output | Tol. | R&N | Effi. |
|------------|--------------|-------|-------|-------|
| IRM-20-3.3 | 3.3V, 0~4.5A | ±2.5% | 200mV | 76% |
| IRM-20-5 | 5V, 0~4A | ±2.5% | 200mV | 79% |
| IRM-20-12 | 12V, 0~1.8A | ±2.5% | 200mV | 84% |
| IRM-20-15 | 15V, 0~1.4A | ±2.5% | 200mV | 84% |
| IRM-20-24 | 24V, 0~0.9A | ±2.5% | 200mV | 85% |