



## Features

- Universal AC input / Full range
- **Medical safety (2xMOPP)**
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Extremely low leakage current
- No load power consumption <0.075W
- **EMI class B** for Class II configuration
- **-40~+85°C** wide range working temperature
- **Miniature size**, high power density
- No minimum load required
- 3 years warranty

## General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)



Model No.	MFM-05	MFM-10	MFM-15	MFM-20	MFM-30
AC input voltage range	80~264VAC				
Leakage current	<80μA at 264VAC				
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC				
Overload protection	105%~160% hiccup mode, auto-recovery			115%~165%	
Over voltage protection	105%~135% shut down o/p voltage			105%~135%	
Setup, rise, hold up time	1000ms, 30ms, 40ms at 230VAC			500ms, 30ms, 40ms at 230VAC	
Withstand voltage	I/P-O/P: 4kVAC				
Working temperature	-40~+85°C	-30~+85°C	-35~+85°C		-40~+85°C (refer to output derating curve)
Safety standards	BS EN 60601-1, EN60601-1, EAC TP TC 004, UL ANSI/AAMI ES60601, CAN/CSA-C22 3rd edition; <b>BS EN/EN 60335-1(MFM-15/20) approved</b>				
EMC standards	BS EN/EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN60601-1-2				
Connection	4 pins				
Dimension (LxWxH)(mm)	42x 22.3x 20.5		49x 23.8x 23		65.5x 35x 23

### 5W MFM-05

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-05-3.3	3.3V, 1.25A / 1.38A	±2.5%	100mV	74%
MFM-05-5	5V, 1.00A / 1.10A	±2.5%	100mV	78%
MFM-05-12	12V, 0.42A / 0.46A	±2.5%	150mV	80%
MFM-05-15	15V, 0.33A / 0.36A	±2.5%	150mV	81%
MFM-05-24	24V, 0.23A / 0.25A	±2.5%	180mV	82%

### 10W MFM-10

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-10-3.3	3.3V, 2.50A / 2.75A	±2.5%	120mV	78%
MFM-10-5	5V, 2.00A / 2.20A	±2.5%	100mV	81%
MFM-10-12	12V, 0.85A / 0.94A	±2.5%	180mV	83%
MFM-10-15	15V, 0.67A / 0.74A	±2.5%	180mV	83%
MFM-10-24	24V, 0.42A / 0.46A	±2.5%	200mV	84%

### 15W MFM-15

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-15-3.3	3.3V, 3.50A / 3.85A	±2%	150mV	83.5%
MFM-15-5	5V, 3.00A / 3.30A	±2%	150mV	85.5%
MFM-15-12	12V, 1.25A / 1.38A	±2%	150mV	86.5%
MFM-15-15	15V, 1.00A / 1.10A	±2%	180mV	87.0%
MFM-15-24	24V, 0.63A / 0.69A	±2%	180mV	86.5%

### 20W MFM-20

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-20-3.3	3.3V, 4.50A / 4.95A	±2%	150mV	81%
MFM-20-5	5V, 4.00A / 4.40A	±2%	150mV	85%
MFM-20-12	12V, 1.80A / 1.98A	±2%	150mV	85.5%
MFM-20-15	15V, 1.40A / 1.54A	±2%	180mV	87%
MFM-20-24	24V, 0.90A / 0.99A	±2%	180mV	87%

### 30W MFM-30

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-30-3.3	3.3V, 6.00A / 7.8A	±2%	80mV	82.5%
MFM-30-5	5V, 6.00A / 6.9A	±2%	80mV	86.5%
MFM-30-12	12V, 2.50A / 2.9A	±2%	120mV	90%
MFM-30-15	15V, 2.00A / 2.3A	±2%	120mV	89%
MFM-30-24	24V, 1.30A / 1.5A	±2%	200mV	90%
MFM-30-48	48V, 0.63A / 0.73A	±2%	200mV	91%