

Green Open Frame

5~30W Medical Miniature PCB-Mount



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
- Withstand **5G** vibration test
- **Miniature size**, high power density
- Fully isolated plastic case
- 3 years warranty

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



Model No.	MPM-05	MPM-10	MPM-15	MPM-20	MPM-30-x [ST]
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				
Over voltage protection	105%~135% shut down o/p voltage				
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	-40~+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; EN60335-1 approved for MPM-15/20				
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)	45.7x 25.4x 21.5		52.4x 27.2x 24		PCB mounting: 69.5x 39x 24; Screw I/O: 91x 39.5x 28.5

5W MPM-05

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

20W MPM-20

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

10W MPM-10

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

30W MPM-30

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

15W MPM-15

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MPM-15-3.3	3.3V, 3.50A / 3.85A	±1%	150mV	83.5%
MPM-15-5	5V, 3.00A / 3.30A	±1%	150mV	85.5%
MPM-15-12	12V, 1.25A / 1.38A	±1%	150mV	86.5%
MPM-15-15	15V, 1.00A / 1.10A	±1%	180mV	87.0%
MPM-15-24	24V, 0.63A / 0.69A	±1%	180mV	86.5%

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



MPM-45/65/90



MPM-45/65/90-xST

NEW



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 <0.1W
- Withstand 5G vibration test
- EMI class B for class II configuration
- -30~+80°C wide range working temperature
- 110% peak power (10 sec.)
- **Miniature size**, high power density
- Fully isolated plastic case
- 3 years warranty

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



Model No.	MPM-45	MPM-65	MPM-90
AC input voltage range	80~264VAC		
Leakage current	<100µA at 264VAC		
AC inrush current (max.)	Cold start, 30A at 115VAC, 60A at 230VAC	Cold start, 30A at 115VAC, 65A at 230VAC	
Overload protection	115%~135% hiccup mode, auto-recovery		115%~160% hiccup mode, auto-recovery
Over voltage protection	105%~135% shut down o/p voltage		
Setup, rise, hole up time	1000ms, 30ms at 230VAC		
Withstand voltage	I/P-O/P: 4kVAC		
Working temperature	-30~+80°C (refer to output derating curve)		
Safety standards	BS EN60601-1, EN60601-1, UL ANSI/AAMI ES60601-1(3.1 version), CAN/CSA-C22 3 Edition approved; EAC TP TC 004, Design refer to EN60335-1(by request)		
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)	PCB mounting: 87x 52x 29.5; Screw I/O: 109x 52x 33.5		

45W MPM-45

Model No.	Output (Rated/Peak10 sec.)	Tol.	R&N	Effi.
MPM-45-5□	5V, 8.00A / 8.8A	±2%	80mV	88.0%
MPM-45-12□	12V, 3.75A / 4.13A	±2%	120mV	91.5%
MPM-45-15□	15V, 3.00A / 3.30A	±2%	120mV	92.5%
MPM-45-24□	24V, 1.88A / 2.10A	±2%	200mV	92.5%
MPM-45-48□	48V, 0.94A / 1.05A	±2%	240mV	92.0%

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

Model No.	Output (Rated/Peak10 sec.)	Tol.	R&N	Effi.
MPM-65-15□	15V, 4.33A / 4.77A	±2%	120mV	92.5%
MPM-65-24□	24V, 2.71A / 2.98A	±2%	200mV	93.0%
MPM-65-48□	48V, 1.36A / 1.49A	±2%	240mV	92.0%

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

65W MPM-65

Model No.	Output (Rated/Peak10 sec.)	Tol.	R&N	Effi.
MPM-65-5□	5V, 10A / 11A	±2%	80mV	86.5%
MPM-65-12□	12V, 5.42A / 5.96A	±2%	120mV	92.5%

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

90W MPM-90

Model No.	Output (Rated/Peak10 sec.)	Tol.	R&N	Effi.
MPM-90-12□	12V, 6.7A / 7.37A	±2%	120mV	92.0%
MPM-90-15□	15V, 5.67A / 6.23A	±2%	150mV	92.5%
MPM-90-24□	24V, 3.75A / 4.13A	±2%	200mV	93.0%
MPM-90-48□	48V, 1.88A / 2.07A	±2%	240mV	93.0%

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