MPM-xxxC Series
Overview

MODULE AC/DC POWER SUPPLIES
3W to 90W Compact Modules

Models Available

MPM-03C	MPM-20C
MPM-05C	MPM-30C
MPM-10C	MPM-60C
MPM-15C	MPM-90C

The MPM-C Series are rugged, high-efficiency encapsulated AC/DC modules ranging from 3W to 90W. With a universal 85-305 VAC input, reinforced isolation, and low standby power, these modules ensure reliable performance in industrial, automation, and embedded applications.

MPM-xxC Series

Product Features

01 Isolation Voltage: MPM-03C and MPM-05C 4000 VAC and All Other Models 4200VAC

02 Operating temperature range: -40°C to +85°C

03 Efficiency: Up to 91%

04 A2S and A4S chassis mount option available

05 Universal Input Voltage (85-305 VAC)

06 Low standby power (<0.1W) for energy-efficient designs

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Technical Characteristics

Product Characteristics	Value
Input Voltage Range	85-305 VAC (universal input)
Isolation Voltage	3,000 - 4,000 VAC
Operating Temperature Range	-40°C to +85°C
Efficiency	Up to 94%
Standby Power Consumption	<0.1W
Leakage Current	<150µA
Overload Protection	Built-in, automatic recovery
Short-Circuit Protection	Continuous, automatic recovery
EMC Compliance	EN 55032 Class B (Conducted & Radiated)
Safety Certifications	UL 62368-1
Mounting Options	PCB-mount and chassis-mount available

MPM-03C - 3W Datasheet

Model	Power	Input Voltage (VAC)	Output Voltage	Output Current (mA, Max)	Efficiency (%, Typ)
MPM-03C-03	3W	85 - 305 (VAC)	3.3	900	71
MPM-03C-05	3W		5	600	75
MPM-03C-09	3W		9	333	77
MPM-03C-12	3W		12	250	77
MPM-03C-15	3W		15	200	78
MPM-03C-24	3W		24	125	78

Size: 1.00 x 1.00 x .69 in (25.40 x 25.40 x 17.60 mm)

MPM-05C - 5W Datasheet

Model	Power	Input Voltage (VAC)	Output Voltage	Output Current (mA, Max)	Efficiency (%, Typ)
MPM-05C-03	5W	85 - 305 (VAC)	3.3	1515	71.5
MPM-05C-05	5W		5	1000	77.5
MPM-05C-09	5W		9	555	80.5
MPM-05C-12	5W		12	416	80.5
MPM-05C-15	5W		15	333	81.5
MPM-05C-24	5W		24	208	81.5

Size: 1.00 x 1.00 x .69 in (25.40 x 25.40 x 17.60 mm)

MPM-10C - 10W Datasheet

Model	Power	Input Voltage (VAC)	Output Voltage	Output Current (mA, Max)	Efficiency (%, Typ)
MPM-10C-03	8.6W	85 - 305 (VAC)	3.3	2600	74
MPM-10C-05	10W		5	2000	79
MPM-10C-09	10W		9	1100	81
MPM-10C-12	10W		12	830	84
MPM-10C-15	10W		15	660	84
MPM-10C-24	10W		24	410	85

Size: 1.58 x 1.00 x 0.83 in (40.00 x 25.40 x 21.00 mm)

MPM-15C - 15W Datasheet

Model	Power	Input Voltage (VAC)	Output Voltage	Output Current (mA, Max)	Efficiency (%, Typ)
MPM-15C-03	13.2W	85 - 305 (VAC)	3.3	4000	82
MPM-15C-05	15W		5	3000	85
MPM-15C-09	15W		9	1670	84
MPM-15C-12	15W		12	1250	85
MPM-15C-15	15W		15	1000	85
MPM-15C-24	15W		24	625	86

Size: 1.87 x 1.06 x 0.93 in (47.60 x 26.80 x 23.50 mm)

Customer Support

Phone: 781-344-8226

E-mail: sales@micropowerdirect.com

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Address: 46 Eastman St. Suite 1
South Easton, MA 02375

Technical Characteristics

MPM-20C - 20W Datasheet

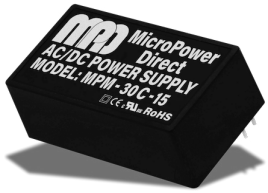
Model	Power	Input Voltage (VAC)	Output Voltage	Output Current (mA, Max)	Efficiency (%, Typ)
MPM-20C-03	14.85W	85 - 305 (VAC)	3.3	4500	81
MPM-20C-05	20W		5	4000	85
MPM-20C-09	20W		9	2200	84
MPM-20C-12	20W		12	1670	86
MPM-20C-15	20W		15	1330	87
MPM-20C-24	20W		24	830	87

Size: 2.06 x 1.07 x 0.95 in (52.40 x 27.20 x 24.00 mm)

MPM-30C - 30W Datasheet

Model	Power	Input Voltage (VAC)	Output Voltage	Output Current (mA, Max)	Efficiency (%, Typ)
MPM-30C-03	19.8W	85 - 305 (VAC)	3.3	6000	85
MPM-30C-05	30W		5	7000	86
MPM-30C-09	30.6W		9	3400	88
MPM-30C-12	30W		12	2500	90
MPM-30C-15	30W		15	2000	90
MPM-30C-24	31.2W		24	1300	88
MPM-30C-48	30.2W		48	630	90

Size: 2.74 x 1.54 x 0.95 in (69.50 x 39.00 x 24.00 mm)



MPM-60C - 60W DATASHEET

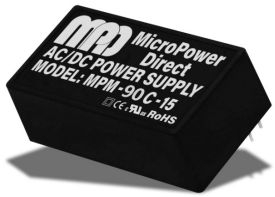
MODEL	POWER	INPUT VOLTAGE (VAC)	OUTPUT VOLTAGE	OUTPUT CURRENT (MA, MAX)	EFFICIENCY (%, TYP)
MPM-60C-05	60W	85 - 305 (VAC)	5	10000	89
MPM-60C-12	60W		12	5000	91
MPM-60C-15	60W		15	4000	90
MPM-60C-24	60W		24	2500	90
MPM-60C-48	60.5W		48	1250	91
MPM-60C-55	60.5W		55.5	1090	91

SIZE: 2.76 X 1.89 X 1.06 IN (70.00 X 48.00 X 27.00 MM)

MPM-90C - 90W Datasheet

Model	Power	Input Voltage (VAC)	Output Voltage	Output Current (mA, Max)	Efficiency (%, Typ)
MPM-90C-12	80.4W	85 - 305 (VAC)	12	6800	92
MPM-90C-15	85.05W		15	4500	92.5
MPM-90C-24	90W		24	3000	93
MPM-90C-48	90W		48	470	93

Size: 3.43 x 2.05 x 1.16 in (87.00 x 52.00 x 29.50 mm)



Typical Applications

- Industrial Automation & Control Systems – PLCs, motor controllers, and factory automation equipment
- Test & Measurement Equipment – Oscilloscopes, data acquisition systems, and precision instrumentation
- Smart Grid & Energy Monitoring – Metering devices, power monitoring, and distributed energy management
- Embedded Systems & IoT Devices – Edge computing, wireless sensor networks, and smart building controls
- Medical & Laboratory Equipment – Patient monitoring devices, diagnostic instruments, and lab automation systems.
- Security & Surveillance Systems – Access control, video monitoring, and alarm systems.
- Telecom & Networking Equipment – Wireless base stations, routers, and network power supplies.

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