

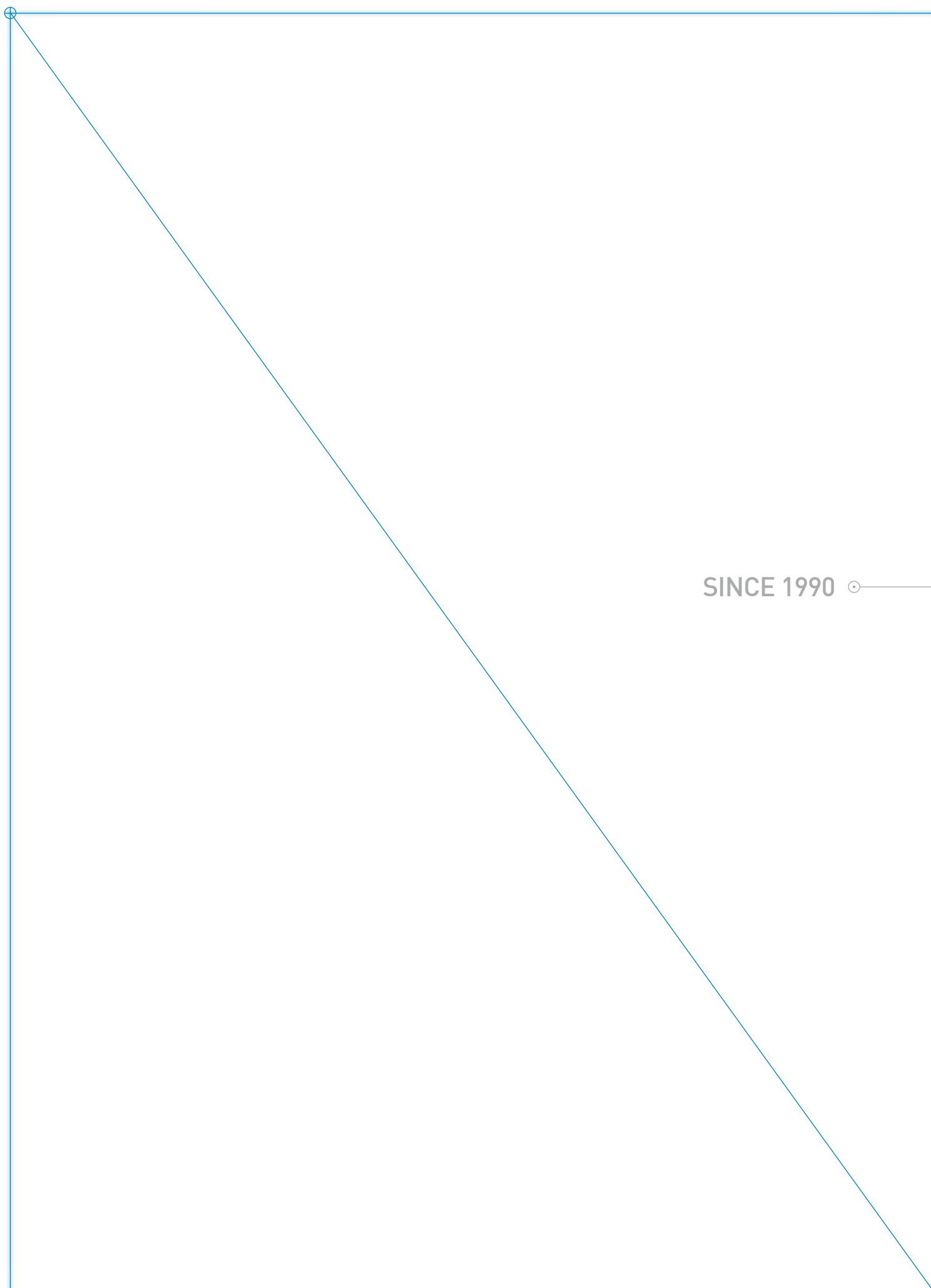
P O W E R

PRODUCT LINE PORTFOLIO

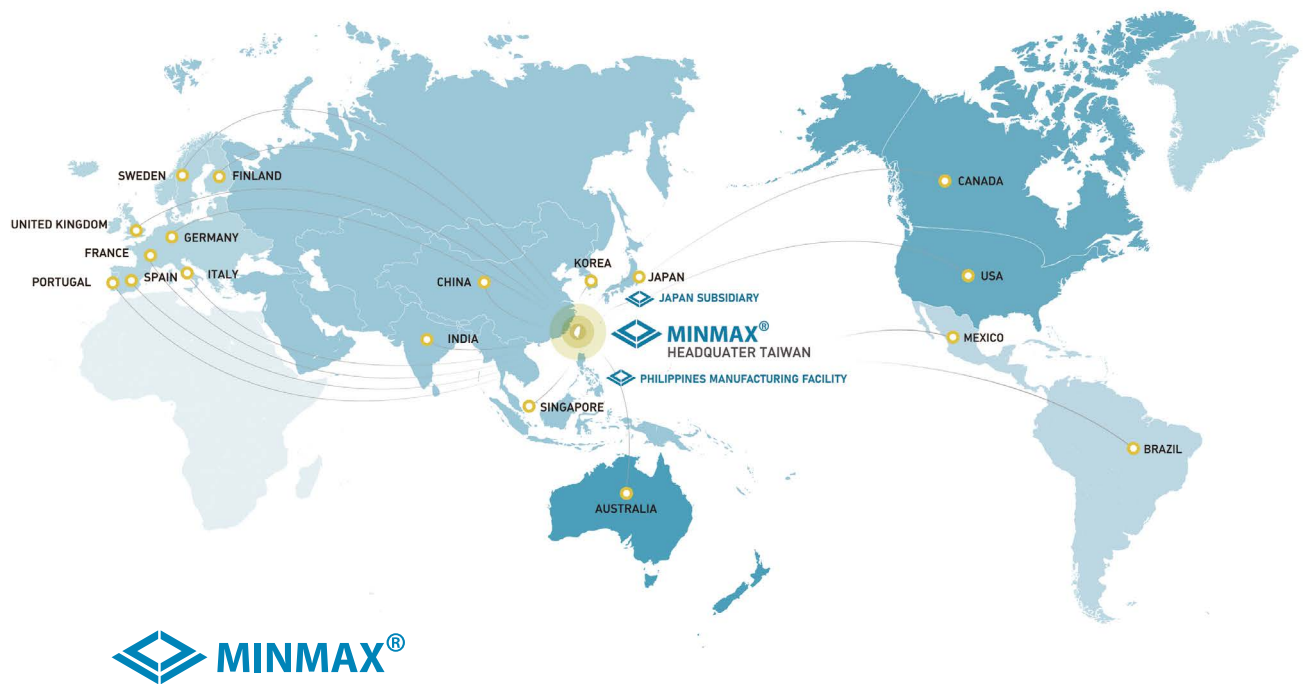
2026

POWER FOR
A BETTER FUTURE





SINCE 1990



ABOUT MINMAX

MINMAX TECHNOLOGY CO., LTD., founded in 1990, designs and manufactures miniaturized, isolated DC-DC and AC-DC power modules. We provide high-power density solutions for industrial automation, renewable energy, railway, medical, and other high-reliability applications.

We place strong emphasis on R&D, continuously investing in engineering talent, development tools, and in-house laboratory capabilities to enhance product performance and long-term reliability. To support global demand, MINMAX operates manufacturing in Taiwan and an expanded production site in the Philippines, enabling scalable capacity, stable quality, and competitive lead times.

With integrated capabilities spanning design, manufacturing, marketing, sales, and after-sales support, MINMAX serves customers worldwide with consistent quality, fast delivery, and responsive technical service. We maintain an international presence through overseas branches and sales offices across APAC, EMEA, and the Americas, including operations in the United States, Europe, China, Japan, South Korea, and India.

In Japan, MINMAX JAPAN (MMJ) serves as our dedicated local branch, providing closer sales coverage and engineering support.



30⁺
years

In Isolated
Power Converters

40⁺
Countries

Distributor
Coverage

5.7⁺_M
pcs/year

Annual
Shipments

200⁺
Series

Product
Development

POWER FOR A BETTER FUTURE



Trusted power for smarter systems worldwide.

At MINMAX, we believe better systems start with better power.

By focusing on miniaturized, isolated power solutions, we help our customers build equipment that is smaller, cleaner, and more dependable – for today and for the future.

WHAT WE STAND FOR



Powering
Innovation



Powering
Reliability



Powering
Sustainability



Powering
Partnership

Find more MINMAX information at www.minmaxpower.com

KEY APPLICATIONS



Railway
Applications



Industrial
Applications



Medical
Applications

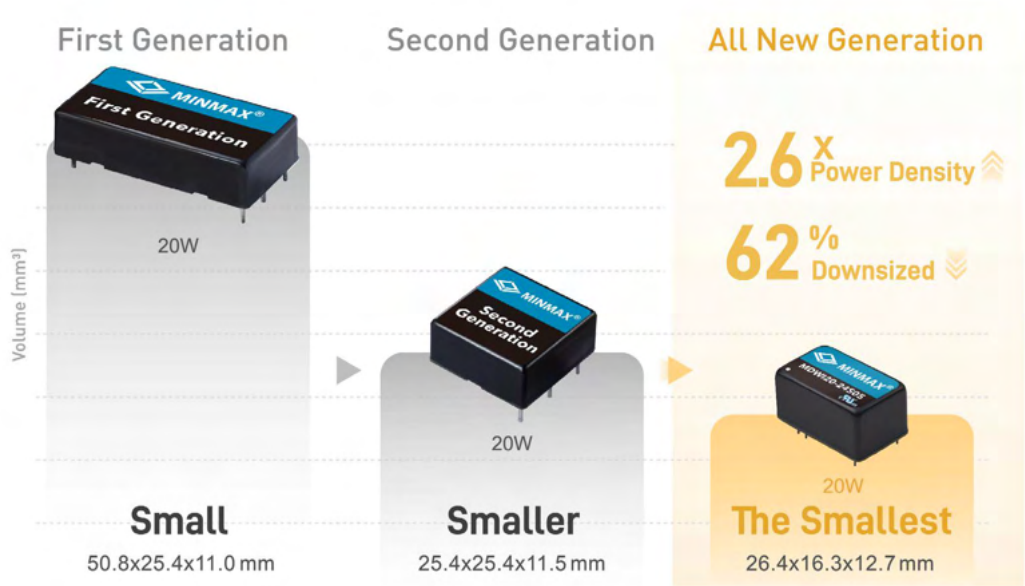


Ultra-High
Isolation
Applications

MINIATURIZED HIGH-DENSITY POWER

MINMAX power converters deliver miniaturized, high-power-density solutions with outstanding electrical performance and proven reliability.

Their compact footprints free up valuable PCB space and make system integration easier, while maintaining stable operation in demanding industrial, medical, and railway applications.



OPTIMIZED INTERNAL DESIGN

Thermal Management
Design Optimization

Advanced
Production
Procedure

PCB Layout Design
Optimization



Advanced Circuit
Design

Overall Electrical
Performance
Optimization

High Performance,
Reliable and
Micro-sized Components

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ULTRA-HIGH ISOLATION POWER SOLUTIONS

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1W	SIP Package DC-DC Converters	24
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15-20W	2"x1" Package DC-DC Converters	24
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MINMAX POWER SOLUTIONS

DC-DC CONVERTERS · AC-DC POWER SUPPLIES | 1-150W

GENERAL INDUSTRIAL

• DC-DC CONVERTERS

SIP Package



1-10W

SMD Package



1-6W

DIP Package



1-20W

• AC-DC POWER SUPPLIES

Encapsulated Package



3-60W

1"×1" Package



10-40W

2"×1" Package



40-80W

Chassis & DIN-Rail Mounting



6-60W

RAILWAY CERTIFIED

• DC-DC CONVERTERS

DIP Package



3W

2"×1" Package



10-40W

Quarter Brick



50-150W

Half Brick



150W

MINMAX POWER SOLUTIONS

DC-DC CONVERTERS · AC-DC POWER SUPPLIES | 1-150W

ULTRA-HIGH ISOLATION

• DC-DC CONVERTERS

SIP Package



1-2W

SMD Package



1W

DIP Package



2-10W

2"x1" Package



15-20W

Chassis & DIN-Rail Mounting



6-60W

MEDICAL SAFETY

• DC-DC CONVERTERS

SIP Package



1W

SMD Package



1-2W

Encapsulated Package



24-60W

DIP Package



2-10W

2"x1" Package



15-20W

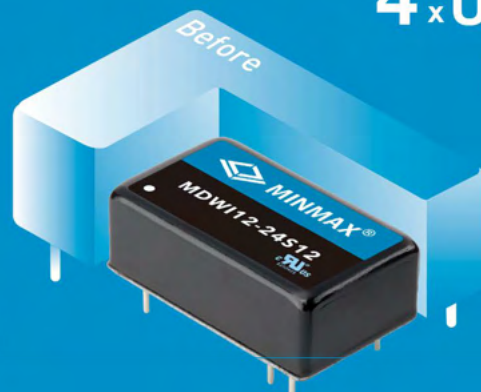
• AC-DC POWER SUPPLIES

GENERAL INDUSTRIAL POWER SOLUTIONS

75%
Board Space

79%
Weight

Power Density
4 x UP



GENERAL INDUSTRIAL • DC-DC CONVERTERS



1-10W SIP PACKAGE



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	Package	OCV	SCP	Remote ON/OFF Control	UL/cUL/IEC/EN 60950-1	UL/cUL/IEC/EN 62368-1
MBU100	1W	2.97-3.63, 4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 9, 12, 15	1000	80%	-40~+85°C			SIP-4					
MAU100	1W	4.5-5.5, 10.8-13.2, 13.5-16.5, 21.6-26.4	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	1000	81%	-40~+85°C			SIP-7				•	
MA01	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 9, 12, 15, ±5, ±9, ±12, ±15	1000	88.5%	-40~+95°C			SIP-7				•	
MA01H	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 9, 12, 15	3000	88%	-40~+95°C			SIP-7				•	
MAU200	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	3000	81%	-40~+90°C			SIP-7				•	
MAPU01H	1W	2.97-3.63, 4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 9, 12, 15, ±5, ±12, ±15	3000	84%	-40~+90°C			SIP-7		•		•	•
MAW01	1W	4.5-9, 9-18, 18-36, 36-75	5, 12, 15, 24, ±12, ±15	1500	80%	-40~+95°C	•	•	SIP-6	•	•		•	•
MAU300	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 12, 15, ±5, ±12, ±15	1000	83%	-40~+85°C			SIP-7					
MAPU02H	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 9, 12, 15, ±5, ±12, ±15	3000	82%	-40~+90°C			SIP-7		•			
MCW1000	2W	4.5-9, 9-18, 18-36, 36-75	3.3, 5, 12	1000	81%	-40~+85°C	•		SIP-8	•	•	•	•	•
MCWI02	2W	4.5-18, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	1500	82%	-40~+90°C	•	•	SIP-8	•	•	•	•	•
MEW1000	2W	9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	1500	80%	-40~+85°C	•		SIP-9	•	•	•	•	•
MBSU03	3W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15	1500	86%	-40~+90°C			SIP-4		•			•
MA03	3W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 9, 12, 15	1000	89%	-40~+95°C			SIP-7				•	•
MCW03	3W	4.5-9, 9-18, 18-36, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15	1600	83%	-40~+85°C	•		SIP-8	•	•	•	•	•
MCWI03	3W	4.5-18, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	1600	81%	-40~+85°C	•		SIP-8	•	•	•	•	•
MCW04	4W	9-18, 18-36, 36-75	5, 12, 15, 24, ±12, ±15	1600	87%	-40~+85°C	•	•	SIP-8	•	•	•	•	•
MCWI04	4W	9-36, 18-75	5, 12, 15, 24, ±12, ±15	1600	83%	-40~+85°C	•	•	SIP-8	•	•	•	•	•
MCWI05	5W	4.5-18, 9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	84%	-40~+75°C	•	•	SIP-8	•	•	•	•	•
NEW MCWI08	8W	4.5-18, 9-36, 18-75	5, 12, 15, 24, ±12, ±15	1500	86%	-40~+90°C	•	•	SIP-8	•	•	•		•
NEW MCWI10	10W	4.5-18, 9-36, 18-75	5.1, 12, 15, 24, ±12, ±15	1500	89%	-40~+87.5°C	•	•	SIP-8	•	•	•		•

⁽¹⁾ Please refer to derating curve information from datasheet

GENERAL INDUSTRIAL • DC-DC CONVERTERS



1-6W SMD PACKAGE



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	OCP	SCP	Remote ON/OFF Control	Water-washable Process Available	UL/cUL/IEC/EN 60950-1	UL/cUL/IEC/EN 62368-1
MSLU100	1W	4.5-5.5, 10.8-13.2, 13.5-16.5, 21.6-26.4	3.3, 5, 9, 12, 15, ±5, ±12, ±15	1500	80%	-40~+90°C						•	•	•
MSLU300	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 12, 15, ±5, ±12, ±15	3000	81%	-40~+90°C						•		
MSPU01H	1W	2.97-3.63, 4.5-5.5, 10.8-13.2	3.3, 5, 12, 15, ±5, ±12, ±15	3000	85%	-40~+85°C			•	•		•	•	•
MSCW01	1W	4.5-9, 9-18, 18-36, 36-75	5, 12, 15, ±12, ±15	1500	82%	-40~+85°C	•	•	•	•	•	•	•	•
NEW MSU01	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500	91%	-40~+95°C		•		•		•		•
MSLU400	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 12, ±5, ±12, ±15	1500	80%	-40~+92.5°C						•		
MSDW1000	2W	4.5-9, 9-18, 18-36, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15	1500	81%	-40~+85°C	•		•			•	•	
MSCWI02	2W	4.5-12, 9-36, 18-75	5, 12, 15, 24, ±12, ±15	1500	85%	-40~+80°C	•	•	•	•	•	•	•	•
NEW MSU02	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500	91%	-40~+92.5°C		•		•		•		•
MSDWI03	3W	9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500	80%	-40~+80°C	•		•	•	•	•	•	•
MSCWI03	3W	4.5-12, 9-36, 18-75	5, 12, 15, 24, ±12, ±15	1500	85%	-40~+80°C	•	•	•	•	•	•	•	•
MSGWI06	6W	9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500	83%	-40~+80°C	•		•	•	•	•	•	•

* Qualified to IPC/JEDEC J-STD-020D.1

* Tape & Reel Package Available

⁽¹⁾ Please refer to derating curve information from datasheet

GENERAL INDUSTRIAL • DC-DC CONVERTERS



1-20W DIP PACKAGE



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	Package	OCP/SCP	Remote ON/OFF Control	UL/cUL/IEC/EN 62368-1
MFSU01	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15	1500	83%	-40~+85°C			DIP-8	SCP		
MFU100	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 9, 12, 15	3000	79%	-40~+85°C			DIP-8			
MFPU01H	1W	2.97-3.63, 4.5-5.5, 10.8-13.2	3.3, 5, 12, 15, ±5, ±12, ±15	3000	83%	-40~+90°C			DIP-8	•		•
MFU02	2W	4.5-10, 9-18, 18-36, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15	1500	87%	-40~+80°C	•	•	DIP-8	•		•
MDW1000	2W	4.5-9, 9-18, 18-36, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15	1500	81%	-40~+80°C	•		DIP-16	SCP		
MFU03	3W	4.5-10, 9-18, 18-36, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15	1500	87%	-40~+80°C	•	•	DIP-8	•		•
MDWI03	3W	9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500	80%	-40~+85°C	•		DIP-16	•	•	•
MIAR03	3W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15, ±12, ±15	1500	82%	-40~+85°C	•	•	DIP-24	SCP		•
MIW1100	3W	4.5-9, 9-18, 18-36, 36-75, 10-30	5, 12, 15, ±12, ±15	1500	81%	-40~+85°C	•		DIP-24	•		
MIW03	3W	4.5-9, 9-18, 18-36, 36-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500 3000	85%	-40~+85°C	•	•	DIP-24	•		•
MIWI03	3W	9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500 3000	84%	-40~+85°C	•	•	DIP-24	•		•
MIW06	6W	9-18, 18-36, 36-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500 3000	84%	-40~+85°C	•	•	DIP-24	•		
MIWI06	6W	9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500 3000	84%	-40~+85°C	•	•	DIP-24	•		•
MDWI06	6W	9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1500	87%	-40~+90°C	•	•	DIP-16	•		•
MDW08	8W	9-18, 18-36, 36-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	86%	-40~+80°C	•	•	DIP-16	•		•
MDW10	10W	9-18, 18-36, 36-75	3.3, 5, 5.1, 12, 15, 24, ±12, ±15	1500	88%	-40~+88°C	•	•	DIP-16	•		•
MDWI10	10W	9-36, 18-75	3.3, 5, 5.1, 12, 15, 24, ±12, ±15	1500	88%	-40~+88°C	•	•	DIP-16	•		•
MIW10	10W	9-18, 18-36, 36-75	3.3, 5, 5.1, 12, 15, ±12, ±15	1500	89%	-40~+85°C	•	•	DIP-24	•	•	•
MIWI10	10W	9-36, 18-75	3.3, 5, 5.1, 12, 15, 24, ±12, ±15	1500	87%	-40~+85°C	•	•	DIP-24	•	•	•
MDW12	12W	9-18, 18-36, 36-75	5, 5.1, 12, 15, 24, ±12, ±15	1500	88%	-40~+85°C	•	•	DIP-16	•		•
MDWI12	12W	9-36, 18-75	5, 5.1, 12, 15, 24, ±12, ±15	1500	88%	-40~+85°C	•	•	DIP-16	•		•
NEW MDW15	15W	9-18, 18-36, 36-75	5.1, 12, 15, 24, ±12, ±15	1500	87%	-40~+85°C	•	•	DIP-16	•		•
NEW MDWI15	15W	9-36, 18-75	5.1, 12, 15, 24, ±12, ±15	1500	87%	-40~+85°C	•	•	DIP-16	•		•
NEW MDWI20	20W	4.5-18, 9-36, 18-75	5, 12, 15, 24, ±12, ±15	1500	90%	-40~+87.5°C	•	•	DIP-16	•		•

⁽¹⁾ Please refer to derating curve information from datasheet

GENERAL INDUSTRIAL • DC-DC CONVERTERS



10-40W 1"x1" PACKAGE



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	OC/SCP	OVP	Remote ON/OFF Control	Output Voltage Trim	UL/cUL/IEC/EN 62368-1
MJW10	10W	9-18, 18-36, 36-75	3.3, 5, 5.1, 12, 15, ±5, ±12, ±15	1500	89%	-40~+80°C	•	•	•	•	•	•	•
MJWI10	10W	9-36, 18-75	3.3, 5, 5.1, 12, 15, 24, ±5, ±12, ±15	1500	87%	-40~+80°C	•	•	•	•	•	•	•
MJW15	15W	9-18, 18-36, 36-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	91%	-40~+90°C	•	•	•	•	•	•	•
MJWI15	15W	9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	91%	-40~+90°C	•	•	•	•	•	•	•
MJWI20	20W	9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	89%	-40~+85°C	•	•	•	•	•	•	•
MJW25	25W	9-18, 18-36, 36-75	3.3, 5, 12, 15, ±12, ±15	1500	90%	-40~+80°C	•	•	•	•	•	•	•
MJWI25	25W	9-36, 18-75	3.3, 5, 12, 15, ±12, ±15	1500	90%	-40~+80°C	•	•	•	•	•	•	•
MJWI30	30W	9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	90%	-40~+80°C	•	•	•	•	•	•	•
NEW MJWI40	40W	9-36, 18-75	5, 12, 15, 24, 48, 54, ±12, ±15	1500	93%	-40~+85°C	•	•	•	•	•	•	•



40-80W 2"x1" PACKAGE



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	Package	OC/SCP	OVP/OTP	Remote ON/OFF Control	Output Voltage Trim	UL/cUL/IEC/EN 62368-1
MKW40	40W	9-18, 18-36, 36-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	92%	-40~+80°C	•	•	2"x1"	•	•	•	•	•
MKWI40	40W	9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	1500	91%	-40~+80°C	•	•	2"x1"	•	•	•	•	•
MKW50	50W	9-18, 18-36, 36-75	3.3, 5, 12, 15, 24	1500	92%	-40~+80°C	•	•	2"x1"	•	•	•	•	•
MKWI50	50W	9-36, 18-75	3.3, 5, 12, 15, 24	1500	92%	-40~+80°C	•	•	2"x1"	•	•	•	•	•
NEW MKWI80	80W	9-36, 18-75	5, 12, 15, 24, 48, 54, ±12, ±15	1500	92%	-40~+82.5°C	•	•	2"x1"	•	OTP	•	•	•

⁽¹⁾ Please refer to derating curve information from datasheet

GENERAL INDUSTRIAL • DC-DC CONVERTERS



6-60W CHASSIS & DIN-RAIL MOUNTING



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	Package	OCP/SCP	OVP	Remote ON/OFF Control	UL/cUL/IEC/EN 62368-1
MJWI06C	6W	9-36, 18-75	5, 5.1, 12, 15, 24, 48, ±12, ±15, ±24	3000VDC	85%	-40~+92.5°C	•	•	Chassis DIN-Rail	•		•	•
MKWI10C	10W	9-36, 18-75	5, 5.1, 12, 15, 24, 48, ±12, ±15, ±24	3000VDC	86%	-40~+92.5°C	•	•	Chassis DIN-Rail	•		•	•
MOWI20C	20W	9-36, 18-75	5.1, 12, 24, 48	2500VDC	91%	-40~+90°C	•	•	Chassis DIN-Rail	•	•	•	•
MQWI40C	40W	9-36, 18-75	5.1, 12, 24, 48	2500VDC	92%	-40~+85°C	•	•	Chassis DIN-Rail	•	•	•	•
MRWI60C	60W	9-36, 18-75	5.1, 12, 24, 48	2500VDC	92%	-40~+85°C	•	•	Chassis DIN-Rail	•	•	•	•



0.5-1A SWITCHING REGULATORS



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	Package	OTP	SCP	Remote ON/OFF Control	UL/cUL/IEC/EN 62368-1
M78AR-0.5	0.5A	4.75-32	1.5, 1.8, 2.5, 3.3	91%	-40~+90°C	•	•	SIP-3	•	•		
		6.5-32	5	94%	-40~+90°C	•	•	SIP-3	•	•		
		8-32	6.5	95%	-40~+90°C	•	•	SIP-3	•	•		
		11-32	9	96%	-40~+90°C	•	•	SIP-3	•	•		
		15-32	12	97%	-40~+90°C	•	•	SIP-3	•	•		
		18-32	15	97%	-40~+90°C	•	•	SIP-3	•	•		
M78SAR-0.5	0.5A	4.75-32	1.5, 1.8, 2.5, 3.3	91%	-40~+90°C	•	•	SMD	•	•	•	•
		6.5-32	5	94%	-40~+90°C	•	•	SMD	•	•	•	•
		8-32	6.5	95%	-40~+90°C	•	•	SMD	•	•	•	•
		11-32	9	96%	-40~+90°C	•	•	SMD	•	•	•	•
		15-32	12	97%	-40~+90°C	•	•	SMD	•	•	•	•
		18-32	15	97%	-40~+90°C	•	•	SMD	•	•	•	•
M78AR-1	1A	6.5-32	3.3	93%	-40~+85°C	•	•	SIP-3	•	•		
		6.5-32	5	94%	-40~+85°C	•	•	SIP-3	•	•		
		15-32	12	96%	-40~+85°C	•	•	SIP-3	•	•		

⁽¹⁾ Please refer to derating curve information from datasheet

GENERAL INDUSTRIAL • AC-DC POWER SUPPLIES



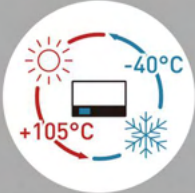
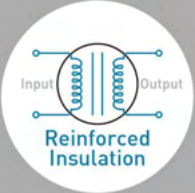
3-60W ENCAPSULATED PACKAGE



Series	Output Power	Input Voltage Range	Output Voltage (VDC)	Isolation (VDC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	Package	Case Size (inches)	SCP/OCP/OVP	UL/cUL/IEC/EN 62368-1	UL/cUL/IEC/EN 60335-1
AAF-03	3W	85 – 264VAC 120-370VDC	3.3, 5, 9, 12, 15, 24	3000 VAC Reinforced	78%	-25~+70°C	•	•	PCB	1.00x1.00x0.64"	•	•	•
ABF-04	4W	85 – 264VAC 120-370VDC	3.3, 5, 9, 12, 15, 24, 5/3.3, 12/5, ±12, ±15	3000 VAC Reinforced	77%	-25~+60°C	•	•	PCB	1.44x1.06x0.67"	•	•	•
AAF-05	5W	85 – 264VAC 120-370VDC	3.3, 5, 9, 12, 15, 24, 48	3000 VAC Reinforced	85%	-25~+70°C	•	•	PCB Chassis	1.00x1.00x0.64" 1.65x1.02x0.76"	•	•	•
AMF-07	7W	85 – 264VAC 90-370VDC	5, 12, 15, 24, 48	3000 VAC Reinforced	85%	-40~+80°C	•	•	PCB Chassis	1.52x1.0x0.66" 2.40x1.20x0.74"	•	•	•
ACF-10	10W	85 – 264VAC 120-370VDC	3.3, 5, 12, 15, 24, 48	4000 VAC Reinforced	86%	-25~+70°C	•	•	PCB	1.52x1.00x0.62"	•	•	•
AGF-15	15W	85 – 264VAC 120-370VDC	3.3, 5, 9, 12, 15, 24, 48	3000 VAC Reinforced	84%	-25~+70°C	•	•	PCB	2.06x1.07x0.93	•	•	•
AMF-15	15W	85 – 264VAC 90-370VDC	5.1, 12, 15, 24, 48	3000 VAC Reinforced	86%	-40~+70°C	•	•	PCB Chassis & DIN-Rail	2.06x1.07x0.93" 2.89x1.18x0.91"	•	•	•
AMF-30	30W	85 – 264VAC 90-370VDC	5.1, 12, 15, 24, 48	3000 VAC Reinforced	88%	-40~+70°C	•	•	PCB Chassis & DIN-Rail	2.52x1.77x0.94" 3.39x1.15x1.00"	•	•	•
AMF-60	60W	85 – 264VAC 90-370VDC	5.1, 12, 15, 24, 48	3000 VAC Reinforced	89%	-40~+70°C	•	•	PCB Chassis & DIN-Rail	2.99x2.13x1.10" 3.86x2.20x1.12"	•	•	•

⁽¹⁾ Please refer to derating curve information from datasheet

RAILWAY CERTIFIED POWER SOLUTIONS



RAILWAY CERTIFIED • DC-DC CONVERTERS



3-150W • DIP • 2"×1" PACKAGE • QUARTER BRICK • HALF BRICK



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VAC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	No Min. Load	OCP/SCP	OVP	OTP	Remote ON/OFF Control	Output Voltage Trim	Output Sense	EN50155 (IEC60571)	UL/cUL/IEC/EN 62368-1
3W • DIP Package															
MIZI03	3W	9-36 18-75 40-160	5, 12, 15, ±12, ±15	3000VAC Reinforced	85%	-40~+92°C Ambient	•	•						•	•
10-40W • 2"×1" Package															
MKZI10	10W	9-36 18-75 40-160	5, 12, 15, 24, ±12, ±15	3000VAC Reinforced	89%	-40~+95°C Ambient	•	•	•		•	•		•	•
MKZI20	20W	9-36 18-75 40-160	5, 12, 15, 24, ±12, ±15	3000VAC Reinforced	88%	-40~+88.5°C Ambient	•	•	•		•	•		•	•
MKZI40	40W	36-160	5, 12, 15, 24, 54, ±12, ±15	3000VAC Reinforced	90%	-40~+77.5°C Ambient	•	•	•	•	•	•		•	•
50-150W • Quarter Brick															
MTQZ50	50W	43-101 66-160	5, 12, 15, 24	3000VAC Reinforced	92%	-40~+85°C Ambient	•	•	•	•	•	•	•	•	•
NEW MRZI75	75W	36-160 ⁽²⁾	5, 12, 15, 24, 54	2000VAC Reinforced	91%	-40~+105°C Base plate	•	•	•	•	•	•	•	•	•
MRZI100	100W	36-160 ⁽²⁾	5, 12, 15, 24, 54	2000VAC Reinforced	91.5%	-40~+105°C Base plate	•	•	•	•	•	•	•	•	•
MRZI150	150W	36-160 ⁽²⁾	5, 12, 15, 24, 54	2000VAC Reinforced	90%	-40~+105°C Base plate	•	•	•	•	•	•	•	•	•
150W • Half Brick															
NEW MRHI150	150W	9-36	5, 12, 15, 24, 54	1680VAC Reinforced	90%	-40~+100°C Base plate	•	•	•	•	•	•	•	•	•

⁽¹⁾Please refer to derating curve information from datasheet

⁽²⁾Please refer to start-up voltage information from datasheet

ULTRA-HIGH ISOLATION POWER SOLUTIONS

Input

Isolation
5K VAC / 60sec



Output

Reinforced Insulation

ULTRA-HIGH ISOLATION • DC-DC CONVERTERS



1-60W • SIP • SMD • DIP • 2"×1" CHASSIS & DIN-RAIL PACKAGE



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation	Working Voltage	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	OCP	OVP	SCP	UL/cUL/IEC/EN 62368-1
1-2W • SIP Package													
MA01-HI	1W	4.5-5.5, 10.8-13.2, 13.5-16.5, 21.6-26.4	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15, ±15/-9	5200VDC		80%	-40~+90°C					•	•
MAEU01-HI	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15	3000VAC Reinforced	480 Vrms	81%	-40~+95°C					•	•
MAEU02-HI	2W	4.5-5.5, 10.8-13.2, 13.5-16.5, 21.6-26.4	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15, ±15/-9	5200VDC		85%	-40~+85°C					•	•
1W • SMD Package													
MSCEU01-HI	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15, ±12, ±15	3000VAC Reinforced	480 Vrms	84%	-40~+95°C					•	•
2-10W • DIP Package													
MDEU02-HI	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15, ±12, ±15	4000VAC Reinforced	300 Vrms	75%	-25~+80°C					•	•
MIR500	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15, ±5, ±12, ±15	6000VDC		64%	-25~+75°C	•	•			•	
MIE03-HI	3.5W	4.5-9, 9-18, 18-36, 36-75	5, 5.8, 12, 15, 24, ±12, ±15	5000VAC Reinforced	1000 Vrms	87%	-40~+96°C	•	•	•	•	•	•
MIEI03-HI	3W	9-40, 18-80	5, 12, ±12, ±15	4000VAC Reinforced	1000 Vrms	83%	-40~+85°C	•		•		•	
MIE06-HI	6W	9-18, 18-36, 36-75	5, 12, 15, 24, ±12, ±15	5000VAC Reinforced	1000 Vrms	89%	-40~+95°C	•	•	•	•	•	•
MIE10-HI	10W	9-18, 18-36, 36-75	3.3, 5, 5.1, 12, 15, 24, ±12, ±15	5000VAC Reinforced	1000 Vrms	88%	-40~+90°C	•	•	•	•	•	•
15-20W • 2 × 1 Package													
MKE15-HI	15W	9-18, 18-36, 36-75	5, 5.1, 12, 15, 24, ±12, ±15	4200VAC Reinforced	1000 Vrms	90%	-40~+85°C	•	•	•	•	•	•
MKE20-HI	20W	9-18, 18-36, 36-75	5, 5.1, 12, 15, 24, ±12, ±15	4200VAC Reinforced	1000 Vrms	90%	-40~+80°C	•	•	•	•	•	•
6-60W • Chassis & DIN-Rail Mounting													
MJA06C	6W	80-160	5, 5.1, 12, 15, 24, 48, ±12, ±15, ±24	3000VAC Reinforced	1000 Vrms	84%	-40~+92.5°C	•	•	•	•		•
MKA10C	10W	80-160	5, 5.1, 12, 15, 24, 48, ±12, ±15, ±24	3000VAC Reinforced	1000 Vrms	85%	-40~+87°C	•	•	•	•		•
MOA20C	20W	80-160	5, 5.1, 12, 15, 24, 48, ±12, ±15, ±24	3000VAC Reinforced	1000 Vrms	88%	-40~+94.5°C	•	•	•	•	•	•
MQA40C	40W	80-160	5, 5.1, 12, 15, 24, 48, ±12, ±15, ±24	3000VAC Reinforced	1000 Vrms	89%	-40~+90°C	•	•	•	•	•	•
MRA60C	60W	80-160	5, 5.1, 12, 15, 24, 48, ±12, ±15, ±24	3000VAC Reinforced	1000 Vrms	89%	-40~+90.5°C	•	•	•	•	•	•

⁽¹⁾ Please refer to derating curve information from datasheet

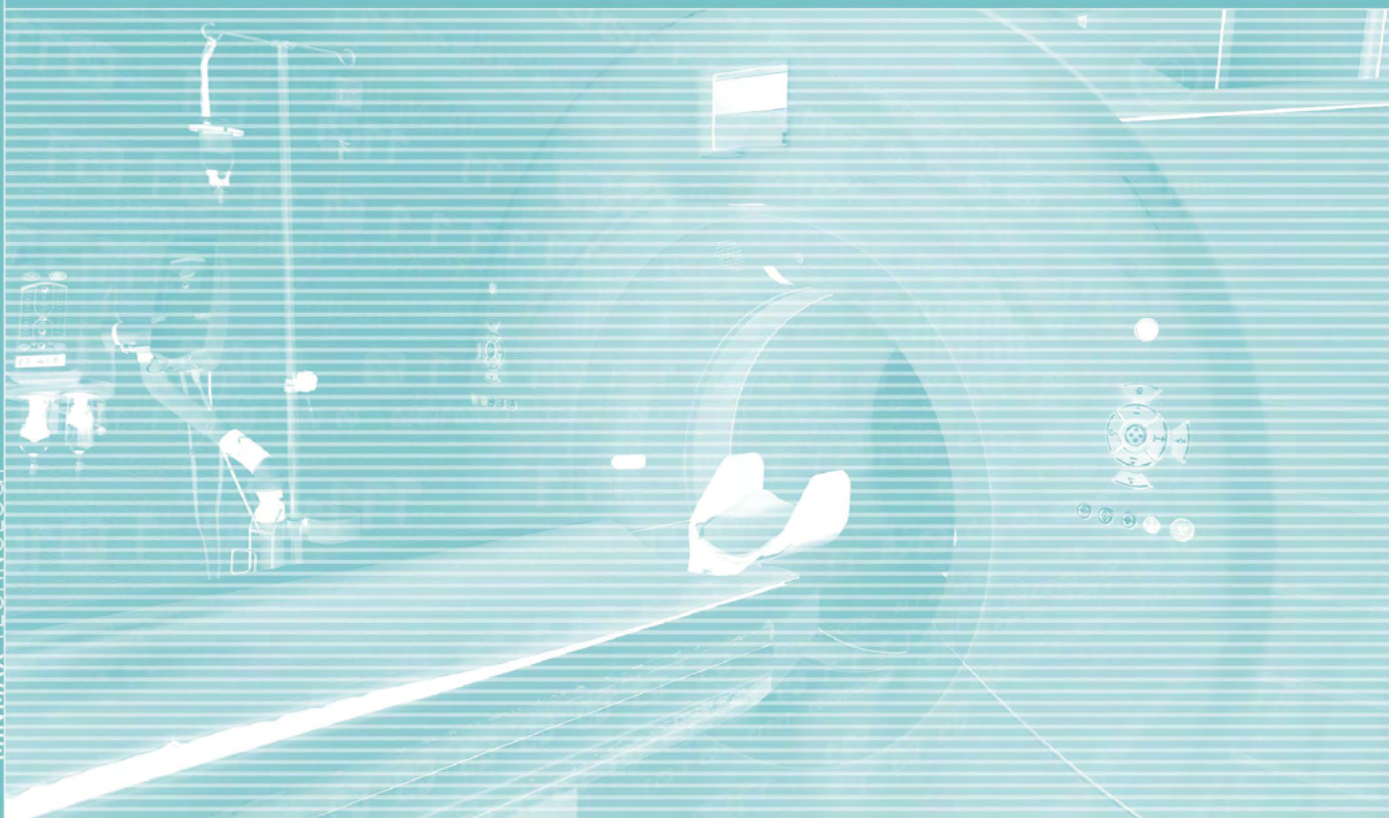
MEDICAL SAFETY POWER SOLUTIONS



IEC 60601-1 APPROVED



2 X MOPP



Medical Safety • DC-DC Converters



1-20W • SIP • SMD • DIP • 2"×1" PACKAGE



Series	Output Power	Input Voltage Range (VDC)	Output Voltage (VDC)	Isolation (VAC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	OC	OVP	SCP	Protection Level	ANSI/AAMI ES 60601-1	IEC/EN 60601-1 3 rd
1W • SIP Package														
MAU400	1W	4.5-5.5, 10.8-13.2	5, 12, 15, ±5, ±12, ±15	3000VAC Reinforced	75%	-25~+85°C						1xMOPP 2xMOPP	•	•
MAU01M	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15	4000VAC Reinforced	81%	-40~+95°C					•	2xMOPP	•	•
1-2W • SMD Package														
MSCU01M	1W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15, ±12, ±15	4000VAC Reinforced	84%	-40~+95°C					•	2xMOPP	•	•
MSHU100	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15, ±12, ±15	4000VAC Reinforced	75%	-25~+80°C						1xMOPP 2xMOPP	•	•
2-10W • DIP Package														
MDHU100	2W	4.5-5.5, 10.8-13.2, 21.6-26.4	5, 12, 15, ±12, ±15	4000VAC Reinforced	75%	-25~+80°C						1xMOPP 2xMOPP	•	•
MIHW2000	3W	9-40, 18-80, 36-160	5, 12, 15, ±12, ±15	4000VAC Reinforced	83%	-40~+85°	•		•		•	1xMOPP 2xMOPP	•	•
MIW03M	3.5W	4.5-9, 9-18, 18-36, 36-75	5, 5.8, 12, 15, ±12, ±15	5000VAC Reinforced	87%	-40~+96°C	•	•	•	•	•	2xMOPP	•	•
MIW06M	6W	9-18, 18-36, 36-75	5, 12, 15, ±12, ±15	5000VAC Reinforced	89%	-40~+95°C	•	•	•	•	•	2xMOPP	•	•
MIW10M	10W	9-18, 18-36, 36-75	3.3, 5, 5.1, 12, 15, 24, ±12, ±15	5000VAC Reinforced	88%	-40~+90°C	•	•	•	•	•	2xMOPP	•	•
15-20W • 2"×1" Package														
MKW15M	15W	9-18, 18-36, 36-75	5, 5.1, 12, 15, 24, ±12, ±15	4200VAC Reinforced	90%	-40~+85°C	•	•	•	•	•	2xMOPP	•	•
MKW20M	20W	9-18, 18-36, 36-75	5, 5.1, 12, 15, 24, ±12, ±15	4200VAC Reinforced	90%	-40~+80°C	•	•	•	•	•	2xMOPP	•	•

⁽¹⁾ Please refer to derating curve information from datasheet

Medical Safety • AC-DC POWER SUPPLIES



24-60W • ENCAPSULATED PACKAGE

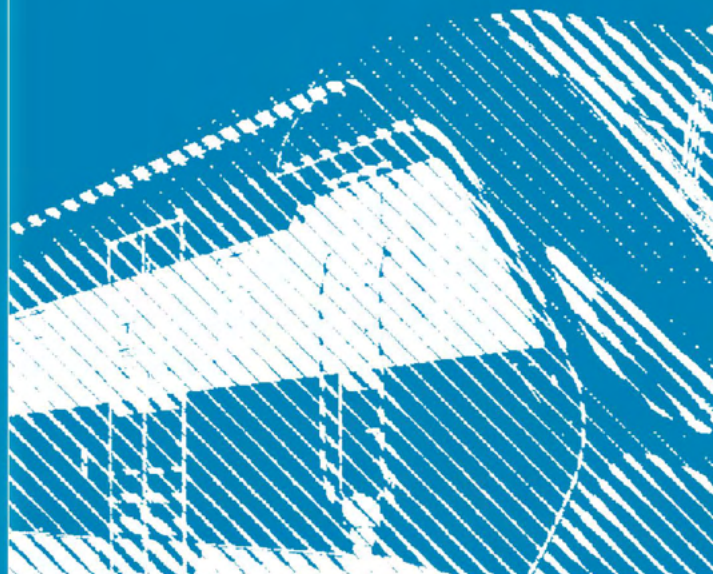


Series	Output Power	Input Voltage Range (VAC)	Output Voltage (VDC)	Isolation (VAC)	Efficiency	Operating Ambient Temp. Range ⁽¹⁾	Output Regulation	No Min. Load	Package	OCP/SCP	OVP	Protection Level	ANSI/AAMIES 60601-1	IEC/EN 60601-1 3 rd
AJM-24	24W	85-264	5, 9, 12, 15, 24, ±12 ±15	4000VAC Reinforced	85%	-40~+80°C	•	•	PCB Chassis DIN-Rail	•	•	2xMOPP	•	•
APM-40	40W	85-264	5, 12, 15, 24, ±12 ±15	4000VAC Reinforced	85%	-40~+80°C	•	•	PCB Chassis DIN-Rail	•	•	2xMOPP	•	•
AYM-60	60W	85-264	5.1, 12, 15, 24, 48	4000VAC Reinforced	85%	-40~+80°C	•	•	PCB Chassis DIN-Rail	•	•	2xMOPP	•	•

⁽¹⁾Please refer to derating curve information from datasheet

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