

DINergy™

By Micron Power Delivery

Advanced power supplies built for the industrial environment



Brochure:

PS-0115C-English

Supercedes: PS-0115B-English

Micron Industries Corporation the industry standard manufacturer of control magnetics has developed into an industry leader in DIN Rail mount industrial power supplies and converters as well. Micron is headquartered in Oak Brook IL with manufacturing facilities in Sterling IL. Additionally, Micron has recently added specialty reactors and custom wound coils to its growing product portfolio.



Oak Brook IL Headquarters

Over its nearly 50 year history as a transformer manufacturer, Micron has become the supplier of choice to the majority of the motor control and drive industry. Besides maintaining rapid response inventories on over 250 catalog items, Micron's active SKU file exceeds 4,500 additional part numbers which are available in a maximum of 15 working days.



Sterling IL Manufacturing

Why Choose Micron?

Power Supplies and Converters: The **DINergy™** product offering encompasses power supplies from 18 watt single phase through 960 watt three-phase in the most popular industrial output voltages. The majority also operate as converters with 120 VDC input capability. Low profile, PCB and panel mount supplies and converters on special order. The **DINergy™** product carries an average MTBF of 450,000 hours and is built to the same demanding design parameters that made our **ImperviTRAN™** the preeminent 600 Volt class transformer in the marketplace for over 40 years.



Control Transformers:

Micron chose to encapsulate its control transformer designs over 40 years ago and still does so today. Why?

Encapsulation provides the following:

- More even heat dissipation from the core.
- Windings and solder joints protected from corrosion which means longer transformer life. The average MTBF of our 600 volt class **ImperviTRAN™** is 192,720 hours.
- Encapsulation and robust terminal block construction greatly reduces the chance of freight and installation damage.

From the beginning, Micron designed a user-centric product that stood the test of time.

- Compact terminal spacing.
- Integral secondary fusing capability.
- Primary fusing capability for nearly 40 years! Now simplified by the factory installed accessory mounting plate.
- Philslot/pressure plate terminal screws simplify the wiring process.

This user-centric philosophy is visible in all Micron products, from control transformers to DC power supplies and reactors.

Micron Industries Corporation Oak Brook IL USA

Marketing Brochure: PS-0115C-English

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Manufacturing Capabilities

Control Transformers: The ImperviTRAN™ product offering is available from 25VA through 5,000VA in any 600 volt class voltage combination. All meet UL, cUL, CSA or EN61558-2-2 and can be built in 105°C, 130°C, 155°C or 180°C designs.



NEMA 3R Products: Micron can furnish virtually all combinations of 600 volt class single and three-phase catalog designs both as encapsulated and ventilated. Included in this selection are transformers capable of providing voltage adjustments as buck-boost designs.



Specialty Designs and Coils: Micron can provide 15 day turn-around on your magnetics needs

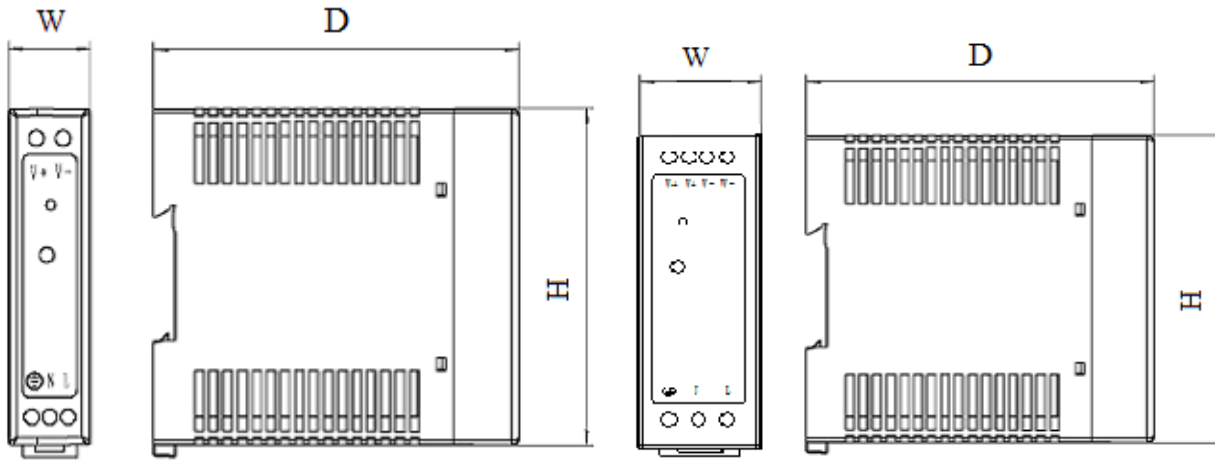
- Specialty coils both stick and bobbin configurations
- Single-phase 600 volt class transformers and chokes built on E-I laminations
- Custom three-phase open construction 600 volt class transformers through 75kVA
- Custom three-phase load bank reactors from 0.5kvar through 150kvar
- Custom three-phase line and load reactors from fractional through 800HP
- Custom capacitor detuning reactors through 75kvar
- Medium voltage control transformers



Plastic/Metal Cases	Case Material	Output Power	Output Voltage	Voltage Adj.	Output Current	Peak Current	Input Voltage	UL/CE/EN/ISA				S T O C K
Model		(Watts)	(VDC)	Range	(A)	(A)	(VAC)	508/60950	UL 1604 ISA 12.12.01	1310	61000	
MDP18-12A-1C	P	18	12	10.8 --13.8	1.67 – 1.30	1.80	90-264	X	X	X	X	X
MDP18-24A-1C	P	18	24	21.6 --28.8	0.83 – 0.63	0.94	90-264	X	X	X	X	X
MDP30-5-1	P	20	5	4.5 -- 5.5	4.44 – 3.64	4.44	90-255	X	X		X	X
MDP30-5A-1C	P	30	5	5.0 – 5.5	6.00 – 5.50	8.03	85-264	X	X		X	X
MDP30-12-1	P	30	12	10 -- 14	3.00 – 2.14	3.00	90-255	X	X		X	X
MDP30-12A-1C	P	30	12	12 -- 14	2.50 – 2.10	3.45	85-264	X	X	X	X	X
MDP30-15-1	P	30	15	14 -- 18	2.14 – 1.67	2.14	90-255	X	X		X	X
MDP30-24-1	P	30	24	22 -- 28	1.36 – 1.07	1.36	90-255	X	X		X	X
MDP30-24A-1C	P	30	24	24 -- 28	1.25 – 1.05	1.71	85-264	X	X	X	X	X
MDP50-12-1	P	50	12	10 -- 14	5.00 - 3.57	5.00	90-255	X			X	X
MDP50-24-1	P	50	24	22 -- 28	2.27 – 1.79	2.27	90-255	X			X	X
MD60-12-1	P	60	12	10 -- 16	4.50 – 3.80	5.40	85-264	X	X		X	X
MDP60-12A-1C	P	60	12	12 – 14	5.00 – 4.25	5.85	85-264	X	X		X	X
MD60-24-1	M	60	24	22 -- 28	2.50 – 2.10	3.00	85-264	X	X		X	X
MDP60-24A-1C	P	60	24	24 -- 28	2.50 – 2.10	3.25	85-264	X	X	X	X	X
MD60-48-1	M	60	48	46 -- 52	1.25 – 1.15	1.50	85-264	X	X		X	X
MDP100-12A-1C	P	100	12	11.4 --14.5	8.40 – 6.90	10.42	90-264	X	X		X	X
MDP100-24AL-1C	P	91.2	24	22.5 --24.5	4.44 – 3.70	4.50	90-264	X	X	X	X	X
MD120-12-1	M	96	12	10 -- 16	8.00 – 6.00	9.60	85-264	X	X		X	X
MD120-12A-1C	M	120	12	11.4 --14.5	10.53 – 8.28	14.50	90-264	X	X		X	X
MD120-24A-1C	M	120	24	22.5 --28.5	5.33 – 4.21	6.85	90-264	X	X		X	X
MD120-48A-1C	M	120	48	45 -- 55	2.50 – 2.10	3.33	90-264	X	X		X	X
MD240-12-1	M	180	12	11 -- 14	15.00 – 11.30	18.00	85-264	X	X		X	X
MD240-12A-1CS	M	190	12	11.4—14.5	16.00—13.00	23.75	88-264	X	X		X	X
MD240-24A-1C	M	240	24	22.5 – 28.5	10.00 – 8.40	13.50	90-264	X	X		X	X
MD240-24A-1CS	M	240	24	22.5 --28.5	10.67 - 8.42	14.50	88-264	X	X		X	X
MD240-48-1	M	240	48	46 – 52	5.00 – 4.60	6.00	85-264	X	X		X	X
MD240-48A-1C	M	240	48	47 – 56	5.00 – 4.20	6.90	90-264	X	X		X	PLAN
MD480-24-1	M	480	24	22 – 28	20.00 – 17.10	24.00	85-264	X			X	X
MD480-24A-1C	M	480	24	22.5 – 28.5	21.33 – 16.84	25.00	90-264	X	X		X	X
MD480-36-1	M	480	36	34 – 40	13.30 – 12.00	16.00	85-264	X			X	C/F
MD480-48A-1C	M	480	48	47 – 56	10.00 – 8.50	12.50	90-264	X	X		X	X
PMIP67A50S24A (IP67)	P	50	24	24 – 24.5	2.10	2.70	90-264	X			X	C/F
PMIP67A100S24 (IP67)	P	100	24	24 – 24.5	4.17	5.40	90-264	X			X	C/F
600700-04512	CONNECTOR, 7/8" FEMALE-STRAIGHT											C/F
600700-04513	CONNECTOR, 7/8" MALE-STRAIGHT											C/F
600700-04514	CONNECTOR, 7/8" FEMALE-90°											C/F
600700-04515	CONNECTOR, 7/8" MALE-90°											C/F
MDP-PDMA-C	P	REDUNDANCY DIODE MODULE				20.00	24Vdc	X			X	X
MDP100-24-2C (2-PH)	P	100	24	22.5 – 28.5	4.44 – 3.70	5.40	340-575	X	X		X	X
MD120-24-3C (3-PH)	M	120	24	22.5 – 28.5	5.00 – 4.20	6.50	340-575	X	X		X	7/15
MD240-24-3C (3-PH)	M	240	24	22.5 – 28.5	10.67 – 8.42	14.00	340-575	X	X		X	X
MD480-24-3C (3-PH)	M	480	24	22.5 – 28.5	21.33 – 16.84	27.00	340-575	X	X		X	X
MD960-24-3C (3-PH)	M	960	24	22.5 – 28.5	42.67 – 33.68	56.00	340-575	X	X		X	X
DRU30-12/MDPU30	P	360	12	12VDC/30A UPS MODULE				X			X	C/F
DRU30-24/MDPU30	P	720	24	24VDC/30A UPS MODULE				X			X	X
MD-VSB240-24-1	M	240	24	24VDC/240WATT VOLTAGE SAG BUFFER/UPS				X			X	C/F
MD-DINBRKTA	M	DIN-MOUNT L.A.B. BRACKET. MAX BATTERY DIMENSION: 134x62x134MM										C/F
MD-DINBRKTB	M	DIN-MOUNT L.A.B. BRACKET. MAX BATTERY DIMENSION: 88x57x97MM										C/F

MDP SERIES - SINGLE PHASE/TWO PHASE

Plastic Case DIN Rail Power Supply Dimensions



(MDP18, MDP30)

(MDP30-1C, MDP50, MDP60, MDP100-1C,
MDP100-2C, MDP-PDMA-C, DRU30-xx/MDPU30)

Model Comparison

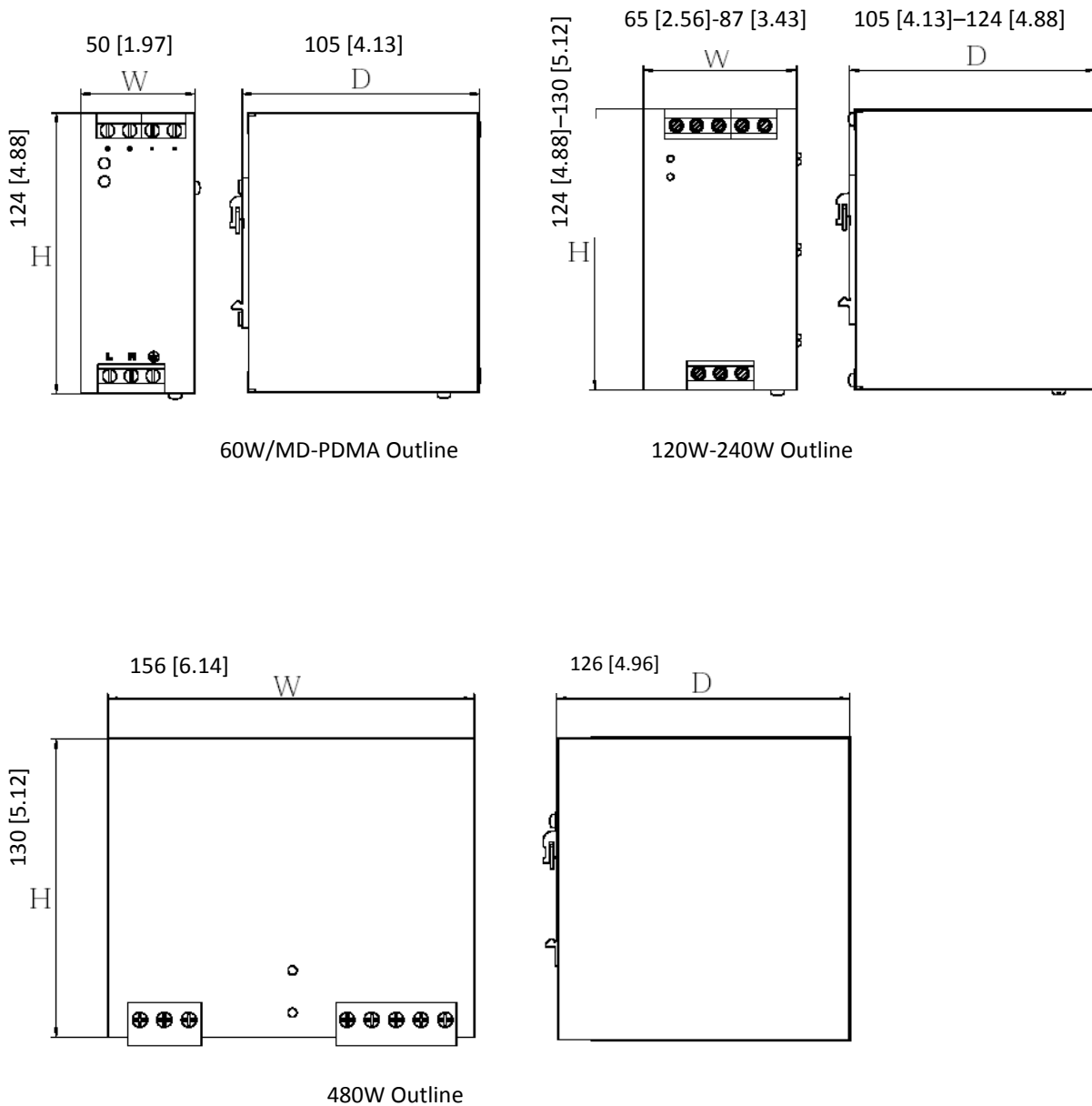
Model	W (Width)	D (Depth)	H (Height)	Weight	Connectors	Torque lb/in
MDP18	0.89" (22.5mm)	4.49" (114mm)	3.60" (90mm)	0.33lbs (150g)	IN/OUT: AWG 26-12	IN/OUT 5
MDP30	0.89" (22.5mm)	4.02" (102mm)	3.60" (90mm)	0.35lbs (160g)	IN/OUT: AWG 22-12	IN/OUT 5
MDP30-1C	1.59" (40.5mm)	4.49" (114mm)	3.60" (90mm)	0.60lbs (270g)	IN/OUT: AWG 26-12	IN/OUT 5
MDP50	1.26" (32mm)	4.02" (102mm)	3.60" (90mm)	0.51lbs (230g)	IN/OUT: AWG 22-12	IN/OUT 5
MDP60-1C	1.59" (40.5mm)	4.49" (114mm)	3.60" (90mm)	0.75lbs (340g)	IN/OUT: AWG 26-12	IN/OUT 5
MDP100-1C	2.13" (54mm)	4.49" (114mm)	3.60" (90mm)	0.95lbs (430g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MDP100-2C	2.13" (54mm)	4.49" (114mm)	3.60" (90mm)	1.10lbs (500g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MDP-PDMA-C	2.13" (54mm)	4.49" (114mm)	3.60" (90mm)	0.50lbs (210g)	IN/OUT AWG 24-10	IN 9/OUT 5.5
DRU30-xx/ MDPU30	2.13" (54mm)	4.49" (114mm)	3.60" (90mm)	0.82lbs (370g)	IN/OUT AWG 18-8	IN 9/Relay 5

GENERAL TOLERANCE	
0.00[0.00] - 30.00[1.18]	±0.30[0.01]
30.00[1.18] - 120.00[4.72]	±0.50[0.02]

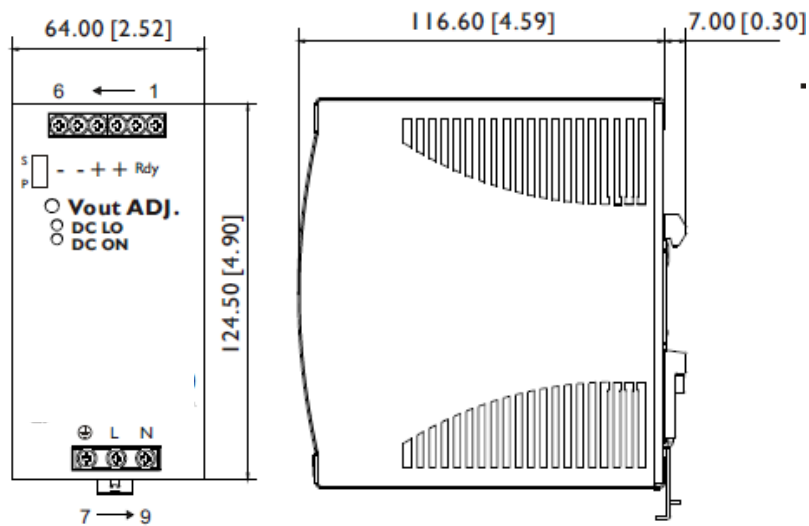
**MICRON ALSO OFFERS THE ImperviTRAN™ LINE OF CONTROL TRANSFORMERS
PLUS SINGLE, THREE PHASE LVGP AND BUCK-BOOST TRANSFORMERS PLUS SPECIALTY
CHOKES AND INDUCTORS**

Metal MD Series Din Rail– Single Phase

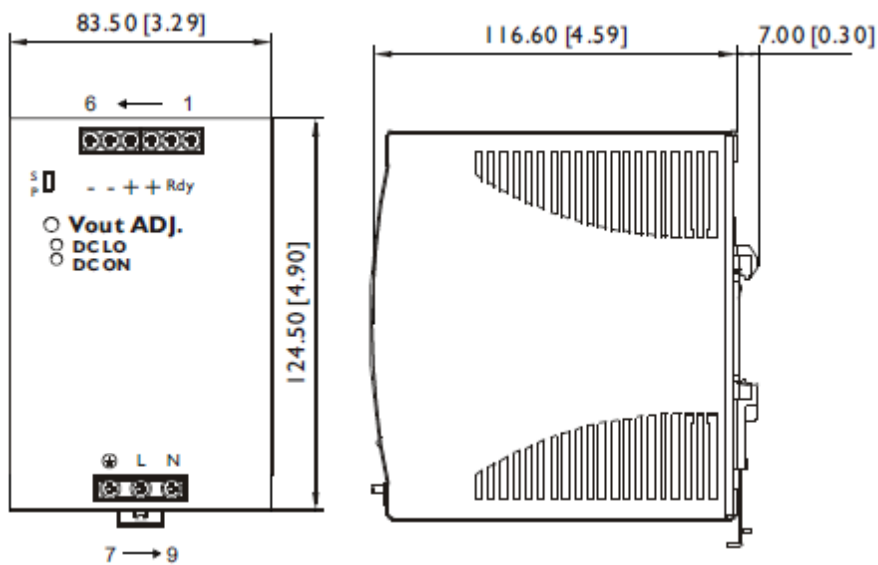
MD60-xx-1 – MD480-xx-1 Dimensions



MD120-xxA-1C and MD240-xxA-1CS Dimensions

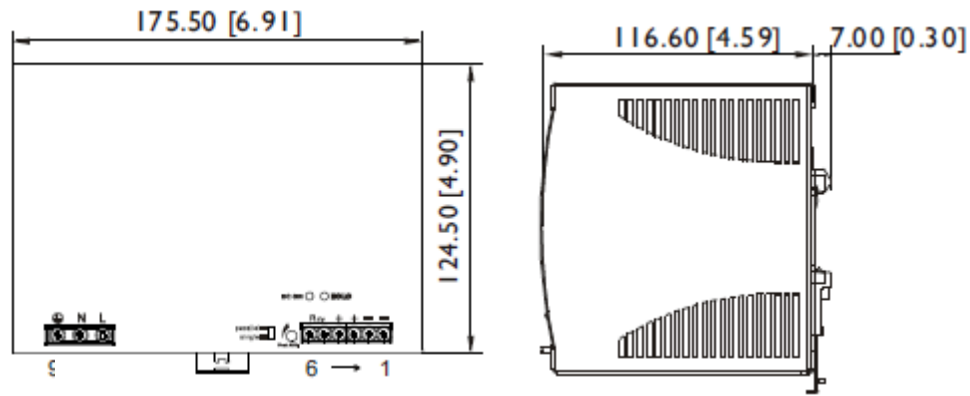


MD240-xxA-1C Dimensions



MICRON ALSO OFFERS THE ImperviTRAN™ LINE OF CONTROL TRANSFORMERS PLUS SINGLE, THREE PHASE LVGP AND BUCK-BOOST TRANSFORMERS PLUS SPECIALTY CHOKES AND INDUCTORS

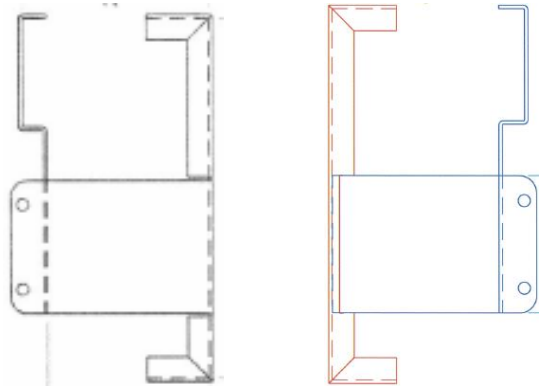
MD480-xxA-1C Dimensions



Model Comparison

Model	W (Width)	D (Depth)	H (Height)	Weight	Connectors	Torque lb/in
MD60	1.97" (50)	4.13" (105)	4.88" (124)	1.08lbs (490g)	IN/OUT: AWG 24-10	4.4
MD-PDMA	1.97" (50)	4.13" (105)	4.88" (124)	0.50lbs (275g)	IN/OUT: AWG 24-10	4.4
MD120	2.56" (65)	4.13" (105)	4.88" (124)	1.65lbs (750g)	IN/OUT: AWG 24-10	4.4
MD120-1C	2.52" (64)	4.59" (117)	4.90" (124.5)	2.03lbs (920g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MD240	3.43" (87)	4.88" (124)	5.12" (130)	2.87lbs (1300g)	IN/OUT: AWG 21-12	4.4
MD240-1C	3.29" (83.5)	4.59" (117)	4.90" (124.5)	3.04lbs (1380g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MD240-1CS	2.52" (64)	4.59" (117)	4.90" (124.5)	2.03lbs (920g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MD480	6.14" (156)	4.96" (126)	5.12" (130)	4.96lbs (2250g)	IN/OUT: AWG 20-6	7
MD480-1C	6.91" (175.5)	4.59" (117)	4.90" (124.5)	4.23lbs (1920g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MD-DINBRKTA	5.38" (135)	3.13 (80)	5.50 (140)	1.08lbs (490g)	IN/OUT: AWG 16	N/A
MD-DINBRKTB	3.56 (90)	3.19 (80)	4.00 (102)	0.75lbs (340g)	IN/OUT: AWG 16	N/A

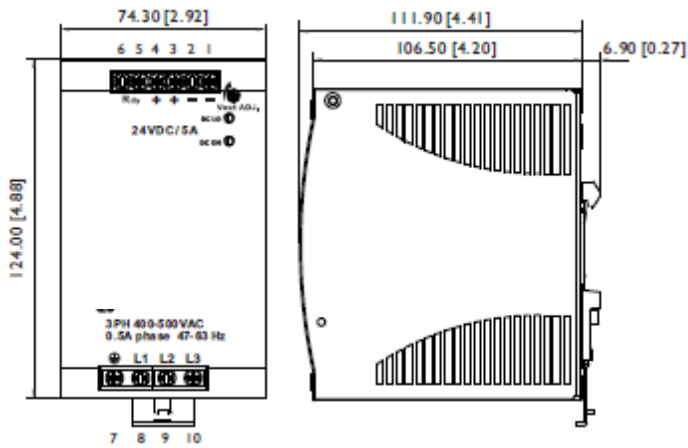
DIN-Mount Battery Holder Kits



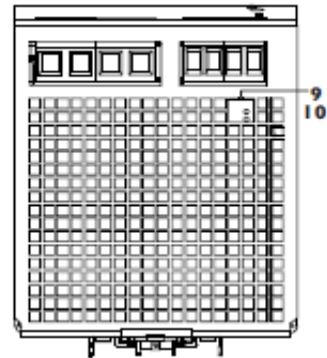
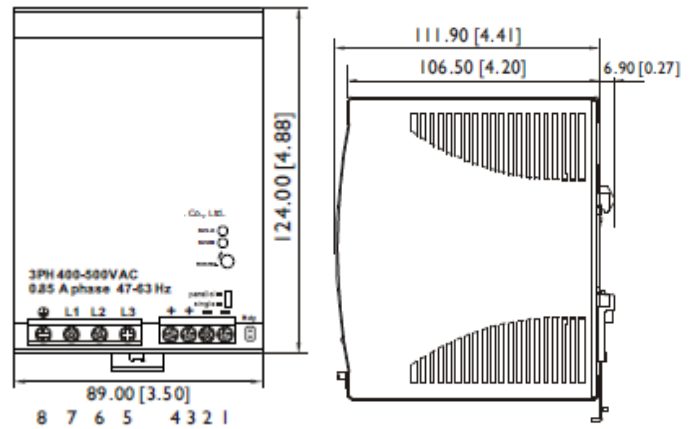
MD Series Din Rail – Three Phase

MD120-xx-3C – MD960-xx-3C Dimensions

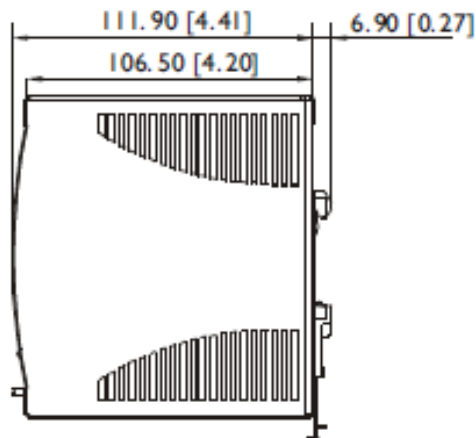
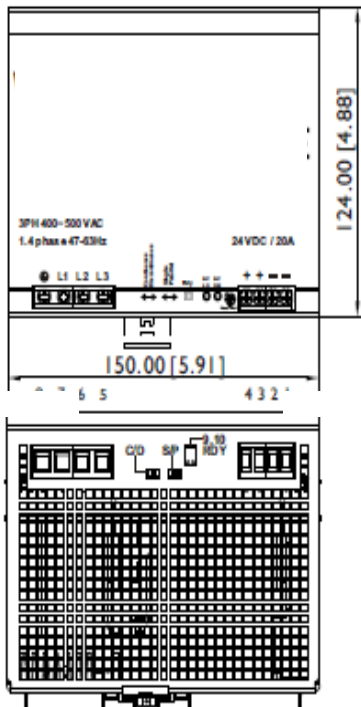
MD120-xx-3C



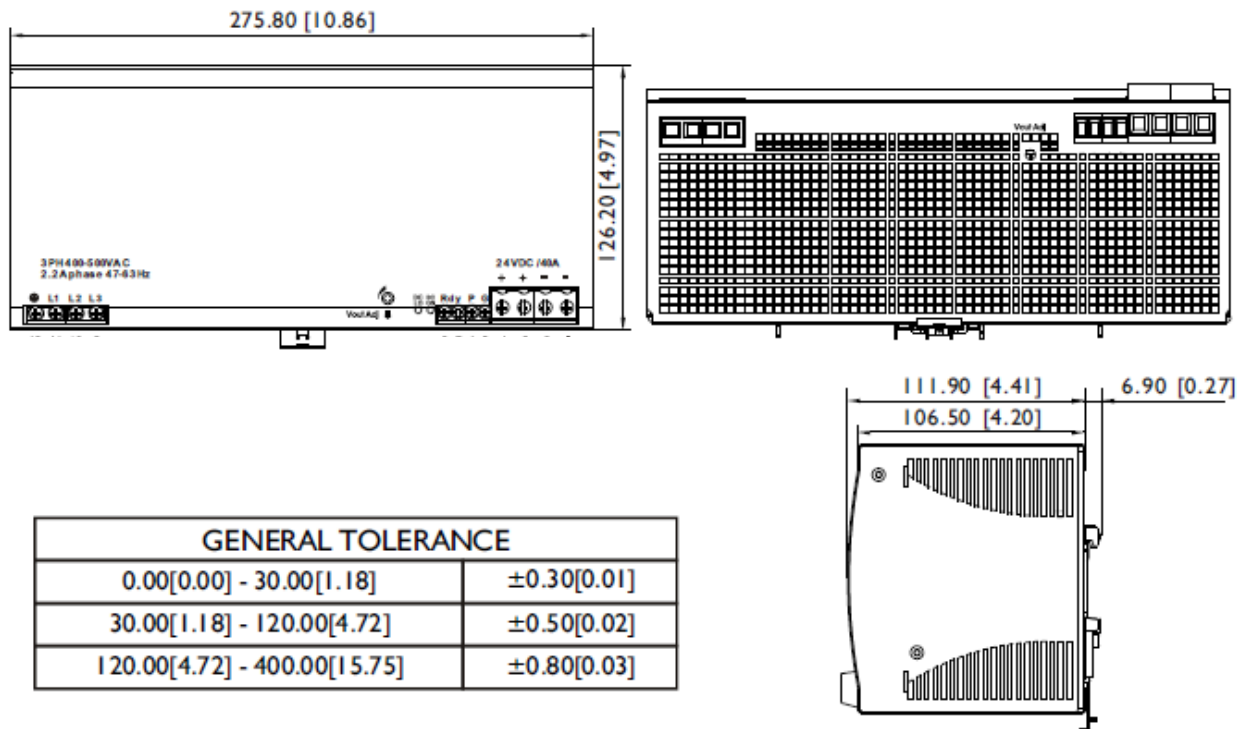
MD240-xx-3C



MD480-xx-3C



MD960-xx-3C Dimensions



Model Comparison

Model	W (Width)	D (Depth)	H (Height)	Weight	Connectors	Torque lb/in
MD120-3C	2.92" (74.3)	4.41" (112)	4.88" (124)	1.76lbs (800g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MD240-3C	3.50" (89)	4.41" (112)	4.88" (124)	2.43lbs (1100g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MD480-3C	5.91" (150)	4.41" (112)	4.88" (124)	3.80lbs (1720g)	IN/OUT: AWG 24-10	IN 9/OUT 5.5
MD960-3C	10.86 (276)	4.41" (112)	4.97" (126)	7.50lbs (3400g)	IN: AWG 24-10 OUT: AWG 20-6	IN 9/OUT 5.5

Basic Specifications

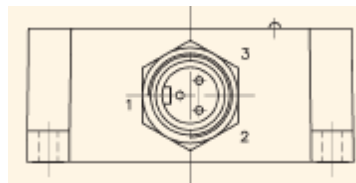
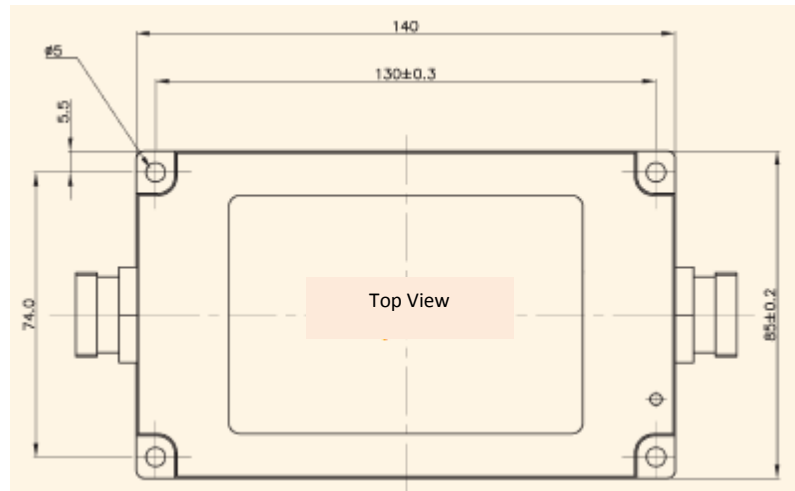
For individual product detail, please refer to the four-page PDF technical document for each power supply category (Wattage & Single/Two/Three Phase). Contact Micron Industries Corporation, +1 630 516 1222 or www.micronpower.com.

- All **DINergy** products are cUL Listed to UL508/60950-1 and CE Certified to EN 61000 specifications.
- Virtually all **DINergy** products qualify to UL 1604; Class 1, Division 2 requirements.
- Many **DINergy** products are classified to UL 1310; Class 2 – current limiting applications.
- All **DINergy** products, excepting UL 1310, are capable of at least 120% rated load.
- All **DINergy** products carry a 3-year warranty.

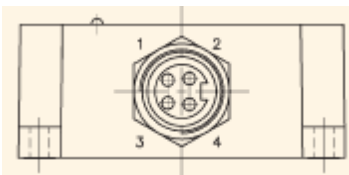
Micron also offers engineered designs such as UPS Modules,
Power supplies for battery backup,
Encapsulated power supplies,
Open frame power supplies
Individual four-page technical PDF's are available for all *DINergy* power supplies

PM Series Encapsulated

PMIP67A50S24 AND PMIP67A100S24 Dimensions

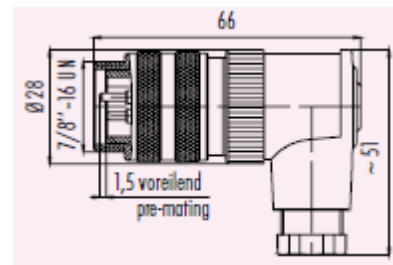
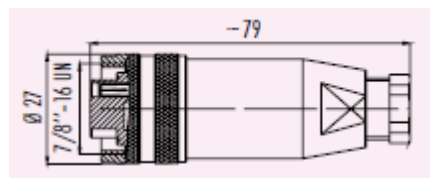


1	2	3
nc	AC _{in}	AC _{in}



1	2	3	4
+U ₁	+U ₁	GND	GND

CONNECTORS SOURCED SEPARATELY (Binder 820 Series) 7/8"



Part Number	Description
600700-04512	Connector, 7/8" Female-Straight
600700-04513	Connector, 7/8" Male-Straight
600700-04514	Connector, 7/8" Female-90°
600700-04515	Connector, 7/8" Male-90°

MICRON INDUSTRIES CORPORATION
1211 WEST 22ND STREET
SUITE 200
OAK BROOK, IL 60523 USA
1.800.664.4660 WITHIN USA
+1.630.516.1222
+1.630.516.1820 FAX