

MW Series

SINGLE OUTPUT INDUSTRIAL DIN RAIL POWER SUPPLY

Key Features

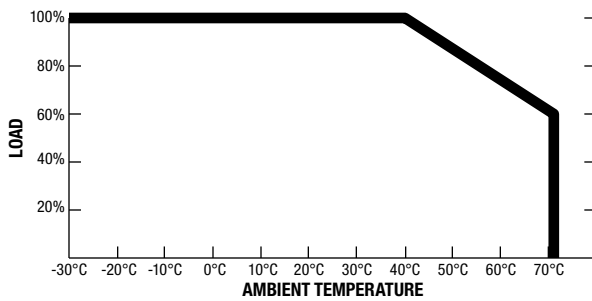
- » Universal AC input/wide range
- » Protection for short circuit, overload, over voltage
- » Cooling by free air convection
- » Deployment on DIN rail TS-35/7.5 or 15
- » NEC class 2/LPS compliant (24VDC or 48VDC)
- » LED power indicator
- » DC OK relay contact
- » 100% full load burn-in test



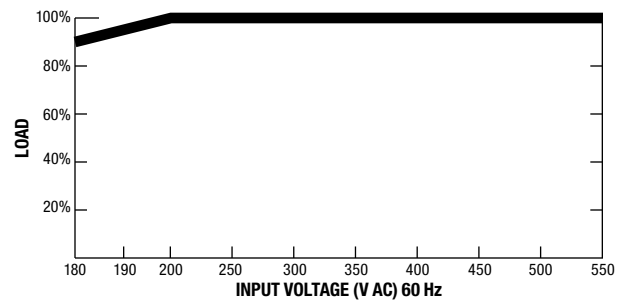
SPECIFICATIONS		AT-MWMDR-20-24	AT-MWMDR-40-48	AT-MWMDR-240-48	AT-MWMDR-480-48
OUTPUT	DC volt	24V	48V	48V	48V
	Rated current	1A	0.83A	5A	10A
	Rated power	24W	39.8W	240W	480W
	Ripple and noise max ²	150mVp-p	200mVp-p	150mVp-p	150mVp-p
	Voltage adj. range	21.6 – 26.4V	48 – 56V	48 – 55V	48 – 55V
	Voltage tolerance ³	+/-1.0%	+/-1.0%	+/-1.0%	+/-1.0%
	Line regulation	+/-1.0%	+/-1.0%	+0.5%	+0.5%
	Load regulation	+/-1.0%	+/-1.0%	+/-1.0%	+/-1.0%
	Setup rise time	500 ms, 30 ms / 230 V AC	500 ms, 30 ms / 230 V AC	1500 ms, 150 ms / 230 V AC	2000 ms, 150 ms / 230 V AC
	Hold up time	50 ms / 230 V AC	50 ms / 230 V AC	18 ms / 230 V AC	16 ms / 230 V AC
INPUT	Voltage range ⁶	85 – 264 V AC	85 – 264 V AC	180 ~ 550 V AC	180 ~ 550 V AC
	Frequency range	43 – 63 Hz	43 – 63 Hz	43 – 63 Hz	43 – 63 Hz
	Power factor	-	-	PF>=0.84/230 V AC	PF>=0.84/230 V AC
	Efficiency	84%	88%	91%	93%
	AC current	0.35A / 230 V AC	0.7A / 230 V AC	2A / 230 V AC	4A / 230 V AC
	Inrush current	40A / 230 V AC (cold start)	60A / 230 V AC (cold start)	50A (cold start)	50A (cold start)
	Leakage current	1mA / 240 V AC	1mA / 240 V AC	<3.5mA / 530 V AC	<3.5mA / 530 V AC
PROTECTION	Overload	105 ~ 160% rated output	105 ~ 150% rated output	105 ~ 130% rated output	105 ~ 130% rated output
	Over voltage	27.6 – 32.4V	56.6 – 64.8V	56 – 65V	56 – 65V
	DC OK signal	18 - 27V / 20mA	Relay contact 30V / 1A	60 vDC / 0.3A, 30 vDC / 1A, 30 V AC / 0.5A resistive load	60 vDC / 0.3A, 30 vDC / 1A, 30 V AC / 0.5A resistive load
ENVIRONMENT AND SAFETY	Operating temp. ⁵	-20°C to 70°C -4°F to 158°F	-20°C to 70°C -4°F to 158°F	-30°C ~ 70°C -22°F ~ 158°F	-30°C ~ 70°C -22°F ~ 158°F
	Humidity	20 – 90% non-condensing	20 – 90% non-condensing	20 – 95% non-condensing	20 – 95% non-condensing
	Storage	-40°C to 85°C/10 to 95%	-40°C to 85°C/10 to 95%	-40°C to 85°C/10 to 95%	-40°C to 85°C/10 to 95%
	Temp. coefficient	+/- 0.03%/°C (50°C)	+/- 0.03%/°C (50°C)	+/- 0.03%/°C (50°C)	+/- 0.03%/°C (50°C)
	Vibration	IEC60068-2-6	IEC60068-2-6	IEC60068-2-6	IEC60068-2-6
	Safety standards	UL508, UL60950-1 TUV EN60950-1	UL508, UL60950-1 TUV EN60950-1 NEC Class 2/LPS comp.	UL508 approved IEC60950-1 CB approved by SIQ design refer to GL	UL508 approved IEC60950-1 CB approved by SIQ design refer to GL
	Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500 vDC 25°C 70%RH	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500 vDC 25°C 70%RH	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500 vDC 25°C 70%RH	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500 vDC 25°C 70%RH
	EMI cond. and radiat.	EN55011, EN55022 (CISPR22), EN61204-3 Class B	EN55011, EN55022 (CISPR22), EN61204-3 Class B	EN55011, EN55022 (CISPR22), EN61204-3 Class B	EN55011, EN55022 (CISPR22), EN61204-3 Class B
	Harmonic current	EN61000-3-2,-3	EN61000-3-2,-3	-	-
OTHER	EMS immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A	EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A	EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A	EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A
	MTBF	236.9K hrs min. MIL-HDBK-217F (25°C)	301.7K hrs min. MIL-HDBK-217F (25°C)	141.1K hrs min. MIL-HDBK-217F (25°C)	112.8K hrs min. MIL-HDBK-217F (25°C)
	Dimensions (W x H x D)	2.25 cm x 9 cm x 10 cm (.89 in x 3.54 in x 3.94 in)	4 cm x 9 cm x 10 cm (1.57 in x 3.54 in x 3.94 in)	6.3 cm x 12.52 cm x 11.35 cm (2.48 in x 4.93 in x 4.47 in)	8.55 cm x 12.52 cm x 12.85 cm (3.37 in x 4.93 in x 5.06 cm)
	Packaging	0.19 Kg; 72pcs / 14.7 Kg / 0.91CUFT	0.3Kg; 42pcs / 13.6Kg / 0.82CUFT	1.06Kg; 12pcs / 13.7Kg / 1.06CUFT	1.7Kg; 8pcs / 14.6Kg / 0.9CUFT

MW Series | Single Output Industrial DIN Rail Power Supply

Derating Curve



Output Derating vs. Input Voltage



Ordering Information

AT-MWMDR20/24

DIN rail industrial power supply,
220 V AC to 24 vDC / 20W

AT-MWMDR40/48

DIN rail industrial power supply,
220 V AC to 48 vDC / 40W

AT-MWMDR240/48

DIN rail industrial power supply,
220 V AC to 48 vDC / 240W

AT-MWMDR480/48

DIN rail industrial power supply,
220 V AC to 48 vDC / 480W

1. All parameters NOT specifically mentioned are measured at 400 V AC input, rated load and 25°C ambient temperature.
2. Ripple and noise are measured at 20Mhz of bandwidth by using a 12 in twisted pair wire terminated with 0.1uF and 47uF parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be confirmed that it still meets EMC directives.
5. Installation clearances: 40 mm on top, 20 mm on the bottom, 5 mm on the left and on the right side are recommended when loaded permanently with full power. In case adjacent device is a heat source, 15 mm clearance is recommended.
6. Derating may be needed under low input voltage. Please check the derating curve for more details.



the **solution** : the **network**

Americas Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895

Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

EMEA & CSA Operations | Incheonweg 7 | 1437 EK Rozenburg | The Netherlands | T: +31 20 7950020 | F: +31 20 7950021

alliedtelesis.com

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