

Zhitao Group

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Industrial Din rail power supply

product specification

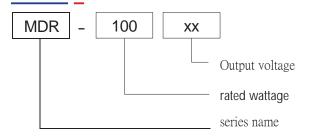
MDR-100

- Product Category: 100W Single Output Din rail switching Power Supply
- Version No.:ZTAO3.0
- Release date: May 1st, 2025

product overview

International full range AC input, mounting rail: TS35/7.5 or 15, no-load power consumption <1.4W, DC OK relay contacts, protection types: short circuit/overload/ overcurrent protection, Cooling by free air convection, LED indicator for power on, 100% full load burn-in test, 3-year warranty.

Model Encoding



Features

- International full-range AC
- input Mounting rail: TS35/7.5 or 15 No-load power consumption <1.4W
- DC OK relay contact
- Type of protection: short
- circuit/overload/OVerVoltageprotection,
 Cooling by free air convection,
- LED indicator for power on
- 100% full load burn-in test
- 3-year warranty

areas of application





Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

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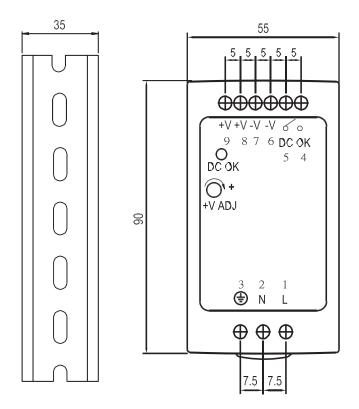


electrical specifications

	Model	MDR-100-12	MDR-100-15	MDR-100-24	MDR-100-36	MDR-100-48		
Output	DC output voltage	12V	15V	24V	36V	48V		
	Rated current	7.5A	6A	4A	2.67A	2A		
	Current range	0~7.5A	0~6A	0~4A	0~2.67A	0~2A		
	Rated power	90W	90W	96W	96.12W	96W		
	Ripple & Noise (Max)	120mVp-p	150mVp-p	240mVp-p	З60mVp-р	360mVp-p		
	voltage adjustment range	10.2~13.8V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V		
	voltage accuracy	±1%	±1%	±1%	±1%	±1%		
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	start-up & rise time	3000ms,30ms/230VAC 3000ms,30ms/115VAC (at full load)						
	Holding time	60mS/230VAC 30mS/115VAC (at full load)						
Input	Input Voltage	90~264VAC 127~370VDC						
	Input frequency	50~60HZ						
	Efficiency	83%	83%	87%	88%	88%		
	Input current	1.3A/115VA C 0.8 A/230V AC						
	Leakage current	< 1mA/240VAC						
		120~150% of rated power						
Protec	overload protection	Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions						
tion	Overvoltage protection	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V		
		Protect mode: shut down the output voltage, restart to recover						
function	DC OK signal	Relay contact (max): 30V/1A resistive load						
	Operating temperature	-20°C ~+65°C						
Enviro	Operating humidity	20~90%RH No condensation						
nment	Storage temperature/humidity	-40~+80°C 10~95%RH, no condensation						
	Vibration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each						
ecurity	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC						
Security	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH						
Others	Product dimensions	55*90*100mm (W*H*D)						
	Packaging	0.35kg/pcs						
	Remarks	 Ripple and noise voltages were bandwidth. Accuracy: Includes setting error Linear Adjustment Ratio Measure Load Adjustment Ratio Measure 	or, linear adjustment ratio and load a surement Method: Test from low vol rement Method: From 0% to 100% old start, fast and frequent switching	oscilloscope with 0.1 μ and 47 μ capacidjustment ratio. tage to high voltage at rated load of rated load on and off may increase the start-up time	е.	ir cable, measured at 20MHZ		

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Appearance and Installation Dimensions (mm)

Mounting rail: TS35/7.5 or TS35/15

 $\mathsf{A}\mathsf{C}\mathsf{LINE}$

AC NETURAL

EARTH

DC output -

DC output -

DC output +

DC output +

L

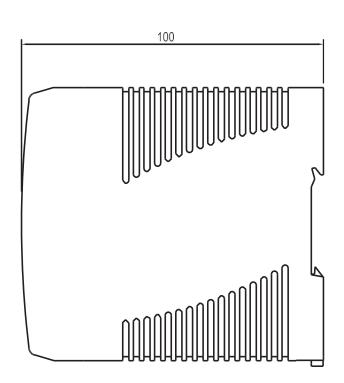
Ν

-Vo

-Vo

+Vo

+Vo



pin No	Assignment	pin No	Assignment
1	AC/L	4~5	DC OK relay contact
2	AC/N	6~7	DCOUTPUT -V
3	FG≟	8~9	DCOUTPUT +V

mounting holes for rail-type customer systems Rail mounting: TS35/7.5 or TS35/15 Remarks:

Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

01-03

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Screw:M2.5*8.5 Torque:4Kgf.cn (0.4N.m)

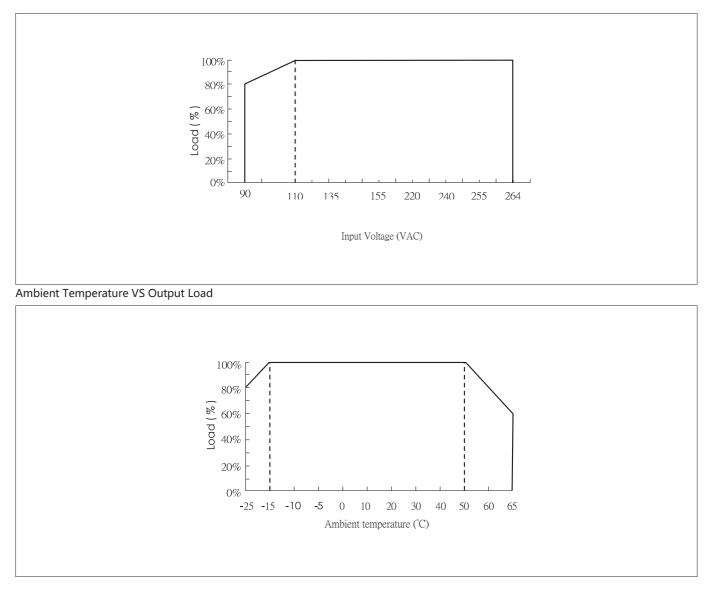
Screw:M2.5*8.5 Torque:4Kgf.cn (0.4N.m)

400-888-6287



characteristic curve

Input Voltage VS Output Load



Note:

1. If you need more detailed test data, please contact our technical support to get the application notes of the corresponding products.

2. This product is suitable for use in a natural air convection environment, if used in a closed environment, please contact our technical support staff.

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