

Industrial Din rail power supply product specification

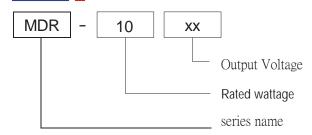
MDR-10

- Product Category:10W 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 con sumption <0.5W, 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
- rail mounted: TS35/7 or 15
- no-load power consumption < 0.7W
 - DC OK relay contact
- protection: short circuit/overload/overvoltage
- 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)

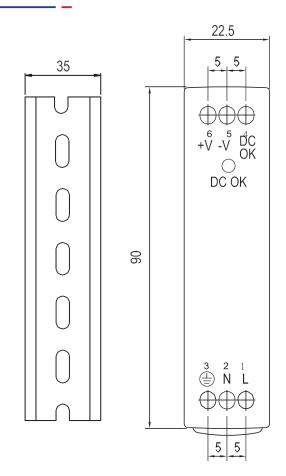


Electrical Specifications

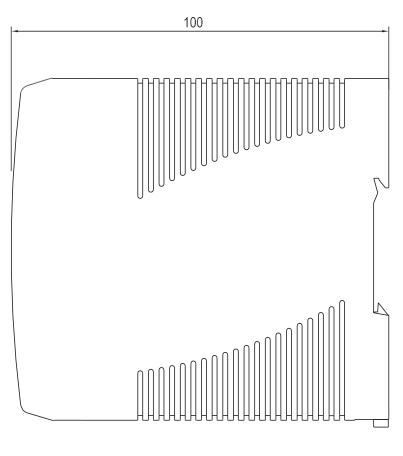
	Model	MDR-10-5	MDR-10- 12	MDR-10- 15	MDR-10- 24	MDR-10- 36	MDR-10- 48	
Output	DC output voltage	5V	12V	15V	24V	36V	48V	
	Rated current	2A	0.84A	0.67A	0.42A	0.28A	0.21A	
	Current range	0~2A	0~0.84A	0~0.67A	0~0.42A	0~0.28A	0~0.42A	
	Rated power	10W	10.08W	10.05W	10.8W	20.16W	10.08W	
	Ripple & Noise (Max)	80mVp-p	100mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	
	voltage adjustment range	4.5~5.5V	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%	±1%	
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	start-up & rise time	500ms,30ms/230VAC 1000ms,30ms/115VAC(at full load)						
	Holding time	60mS/230VAC;25mS/115VAC (at full load)						
	Input Voltage	85~264VAC 120~370 VD C						
Input	Input frequency	50~60HZ						
-	Efficiency	73%	75%	76%	80%	81%	82%	
	Input current	0.33A/115VA C 0.21A/230VAC						
	Leakage current	< 1mA/240VAC						
	overload protection	125~150% of rated power						
Protec tion		Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions						
	Overvoltage protection	5.9~7.3V	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						
Enviro nment	Operating temperature	-20°C ~+65°C						
	Operating humidity	20~90%RH No condensation						
	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						
Security	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC						
	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH						
Others	Product dimensions	22.5*90*100mm (W*H*D)						
	Packaging	0.13kg/pcs						
	Remarks	Ripple and noise voltage bandwidth. Accuracy: Includes settir Linear Adjustment Ratio Load Adjustment Ratio Start-up time is measured.	s were measured on a 20MHz by g error, linear adjustment ratio a Measurement Method: Test fror Measurement Method: From 0% at at cold start, fast and frequent	m low voltage to high voltage at	and 47 μ capacitors at the end rated load se the start-up time.		measured at 20MHZ	



Appearance and Installation Dimensions(mm)



Mounting Rail: TS35/7.5 or TS35/15



Terminal Pin No. Assignment

pin No	Assignment	pin No	Assi gnment				
1	AC/L	4	DC OK relay contact				
2	AC/N	5	DCOUTPUT -V				
3	FG ≟	6	DCOUTPUT +V				

Pinout	Function			
L	AC LINE	Screw:M2.5*8.5		
N	AC NETURAL	Torque:4Kgf.cn(0.4N.m)		
	EARTH			
-Vo	DC output -			
+Vo	DC output +	Screw:M2.5*8.5		
DC OK	relay contacts	Torque:4Kgf.cn(0.4N.m)		

rail-guided customer system installation

Rail mounting: TS35/7.5 or TS35/15

Remarks:

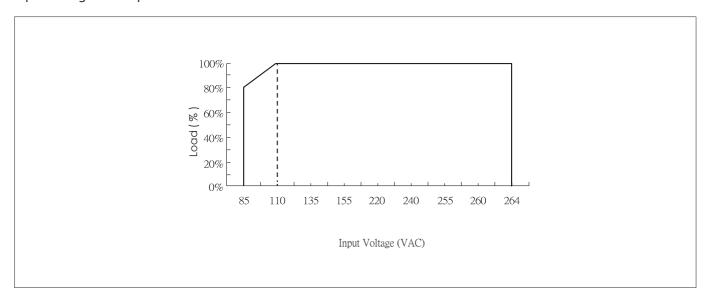
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

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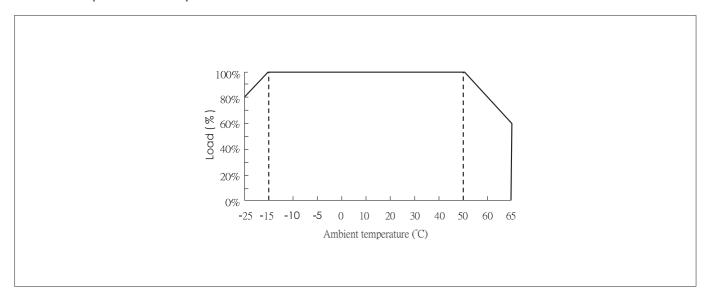


Characteristic Curve

Input Voltage VS Output Load



Ambient Temperature 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.