



EDR-150

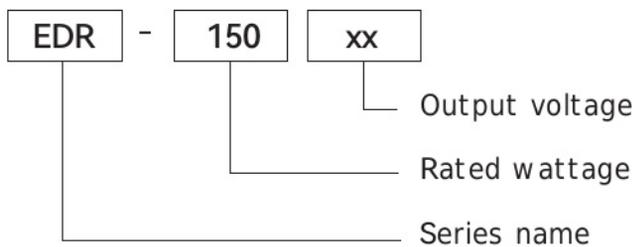
- Product category: 150W single-output Din rail switching power supply
- Version Number: ZTAO3.0
- Release date: May 1st, 2025



Product Overview

The EDR-150-XX series is a 150W industrial power supply for rail mounting. The entire series features wide-range AC/DC input, with output voltages including 12V, 24V, 36V, and 48V, catering to various load application requirements and meeting the needs of most industrial applications. It boasts high conversion efficiency, a compact housing design, excellent heat dissipation, and comprehensive protection, ensuring the high reliability and stability of this series.

Model Encoding



Product features

- International full-range A C input
- Install guide rails: TS35/7.5 or 15
- Protection types: Short circuit / Overload / Overvoltage
- Cooling by free air convection
- LED indicator for power on
- 100% full-load burn-in test
- Three-year warranty

Application fields

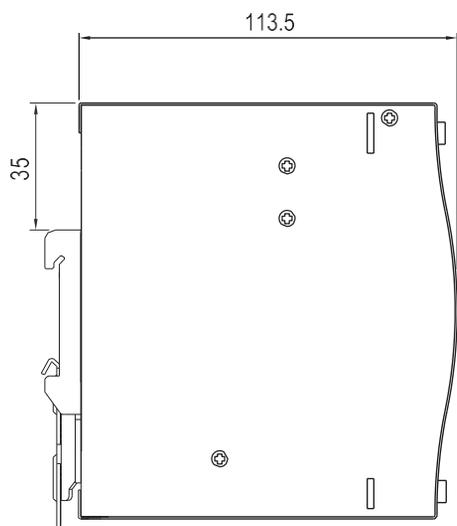
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (excluding information technology equipment)



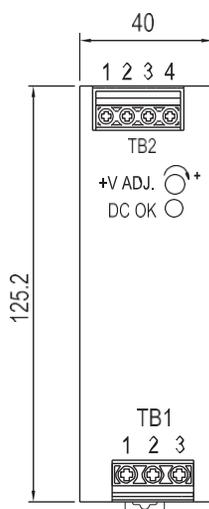
electrical specifications

Model		EDR-150-12	EDR-150-15	EDR-150-24	EDR-150-36	EDR-150-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	10A/115VAC	8A/115VAC	5.2A/115VAC	3.5A/115VAC	2.6A/115VAC
		12.5A/230VAC	10A/230VAC	6.5A/230VAC	4.2A/230VAC	3.2A/230VAC
	Current range	0~10A/115VAC	0~8A/115AC	0~5A/115AC	0~3.5A/115AC	0~2.6A/115AC
		0~12.5A/230VAC	0~10A/230VAC	0~6.5A/230VAC	0~4.2A/230VAC	0~3.2A/230VAC
	Rated power	150W/230VAC	150W/230VAC	156W/230VAC	151.2W/230VAC	153.6W/230VAC
	Ripple & Noise (Max)	100mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-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	1500 ms,60ms/230VAC		3000ms,60ms/115VAC (at full load)		
Holding time	16mS/230VAC 12mS/115VAC (at full load)					
Input	Input Voltage	90~264VAC 127~370VDC				
	Input frequency	50~60HZ				
	Efficiency	85%	85%	88%	88%	89%
	Input current	2.6A/115VAC 1.7A/230VAC				
	Leakage current	< 1mA/240VAC				
Protection	overload protection	120~150% of rated power				
		Protection Mode: Vo drops to undervoltage point and automatically recovers when abnormal conditions are removed				
	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				
Environment	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	40*125.2*113.5mm (W*H*D)				
	Packaging	0.5kg/pcs				
	Remarks	<ol style="list-style-type: none"> All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified. Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors at the end of a 12-inch twisted pair cable, measured at 20MHZ bandwidth. Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio. Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time. When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres 				

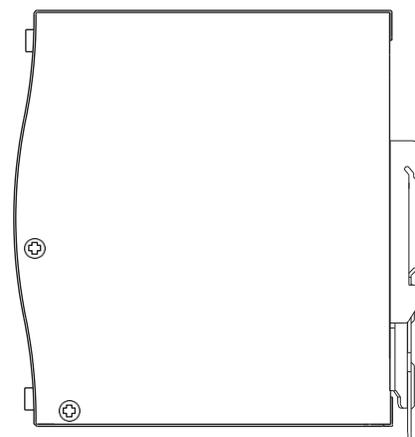
Appearance and Installation Dimensions (mm)



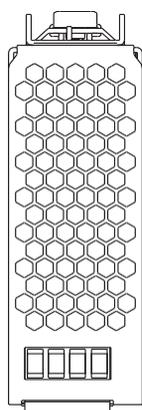
侧视图



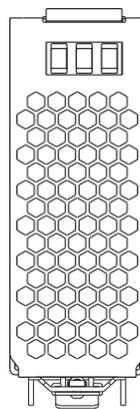
前视图



侧视图



俯视图



底视图

TB1 Terminal Pin No. Assignment

pin	Assignment
1	FG \oplus
2	AC/N or DC -
3	AC/L or DC +

TB2 Terminal Pin No. Assignment

pin	Assignment
1,2	DC OUTPUT -V
3,4	DC OUTPUT+V

Pin	Function	
L	AC LINE	Screw:M3*9.0 Torque:5Kgf.cn (0.5N.m)
N	AC NETURAL	
\oplus	EARTH	
-Vo	DC output -	Screw:M3*9.0 Torque:5Kgf.cn (0.5N.m)
-Vo	DC output -	
+Vo	DC output +	
+Vo	DC output +	

mounting holes for rail-type customer systems

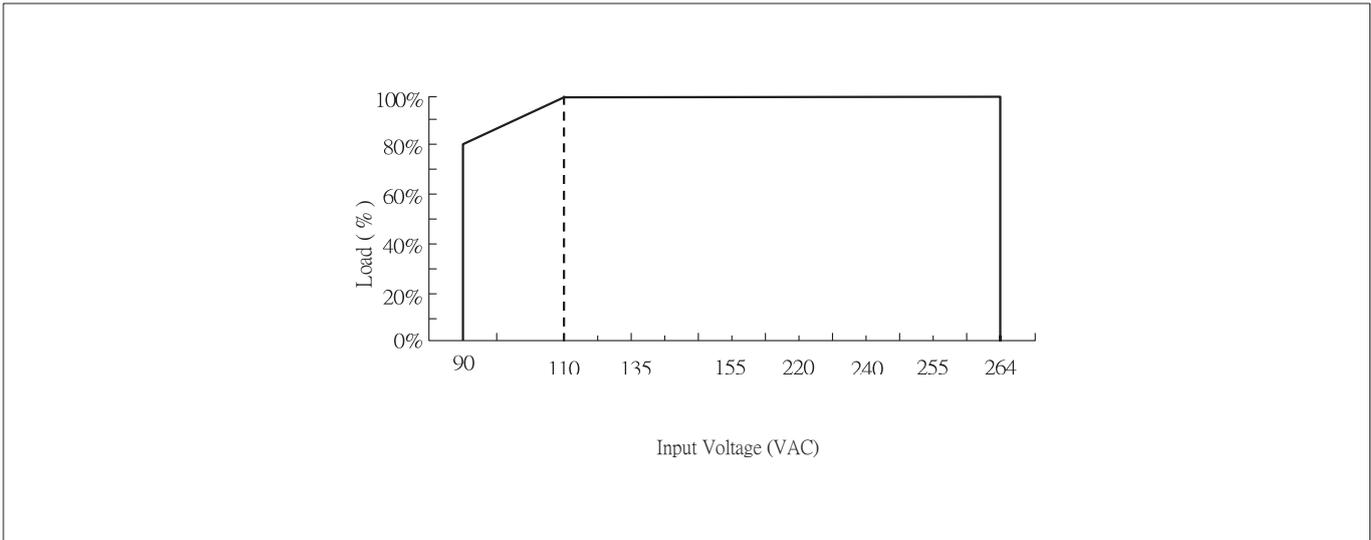
Rail mounting: TS35/7.5 or TS35/15

Notes:

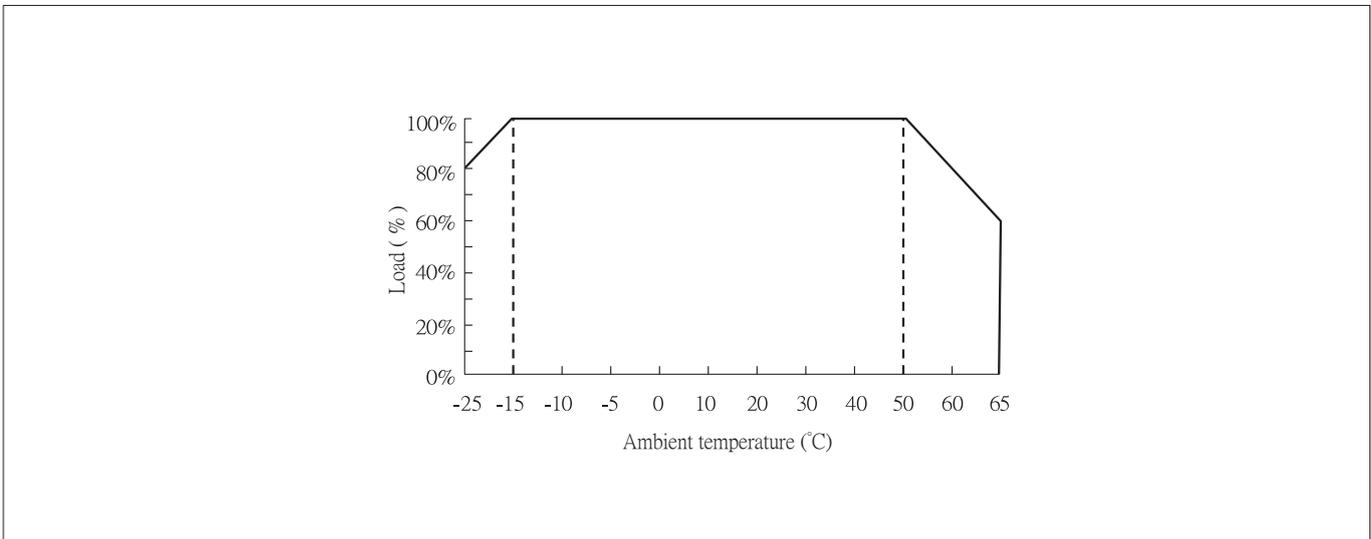
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

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.