

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

MEAN WELL

EDR-150-24

DIN RAIL POWER SUPPLY

Used with the applicable MEAN WELL EDR DIN-rail power supplies configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: MEAN WELL EDR-150 series specification



150W Single Output Industrial DIN RAIL

EDR-150-24



■ Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- 100% full load burn-in test
- 2 years warranty

■ Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

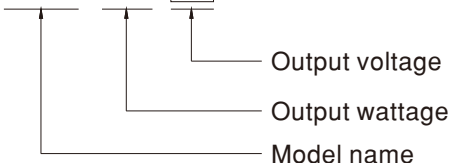
■ Description

EDR-150-24 is one economical slim DIN rail power supply series, providing up to 156W at 230VAC input. This series is adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 40mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to BS EN/EN61000-3-2($\leq 80\%$ Load), the norm the European Union regulates for harmonic current.

EDR-150-24 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 87%, the entire series can operate at the ambient temperature between -20°C and 60°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL508, TUV BS EN/EN62368-1, and etc.) make EDR-150-24 a very competitive power supply solution for industrial applications.

■ Model Encoding

EDR - 150 - 24



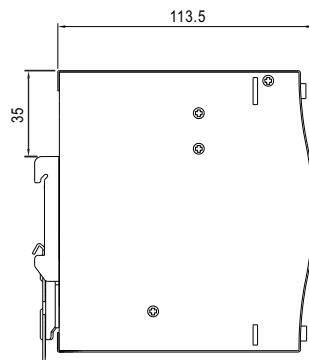
SPECIFICATION

MODEL		EDR-150-24	
OUTPUT	DC VOLTAGE	24V	
	RATED CURRENT	6.5A / 230VAC	5.2A / 115VAC
	CURRENT RANGE	0 ~ 6.5A / 230VAC	0 ~ 5.2A / 115VAC
	RATED POWER	156W / 230VAC	125W / 115VAC
	RIPPLE & NOISE (max.) Note.2	150mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	
	VOLTAGE TOLERANCE Note.3	±1.0%	
	LINE REGULATION	±0.5%	
	LOAD REGULATION	±1.0%	
	SETUP, RISE TIME	1500ms, 60ms/230VAC	3000ms, 60ms/115VAC at full load
	HOLD UP TIME (Typ.)	16ms/230VAC	10ms/115VAC at full load
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC	127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	87%	
	AC CURRENT (Typ.)	2.6A/115VAC	1.7A/230VAC
	INRUSH CURRENT (Typ.)	20A/115VAC	35A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC	
PROTECTION	OVERLOAD Note.7	105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed / 230VAC 105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC	
	OVER VOLTAGE	29 ~ 33V Protection type : Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover	
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")	
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
	SAFETY & EMC (Note 4)	SAFETY STANDARDS	UI508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS15598-1 approved;(meet BS EN/EN60204-1)
WITHSTAND VOLTAGE		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	
EMC EMISSION		Compliance to BS EN/EN55032 (CISPR32) Class A, BS EN/EN61000-3-2, Class A (≤80% Load), BS EN/EN61000-3-3, EAC TP TC 020, CNS15936 Class A	
EMC IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020	
OTHERS	MTBF	2717.1K hrs min. Telcordia SR-332 (Bellcore) ; 472.5K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	40*125.2*113.5mm (W*H*D)	
	PACKING	0.6Kg; 20pcs/13Kg/1.02CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F 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 re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. Derating may be needed under low input voltage. Please check the derating curve for more details. 7. Hiccup mode at 90~100VAC, recovers automatically after fault condition is removed. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		

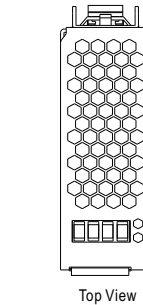
Mechanical Specification

(Unit: mm , tolerance ± 1 mm)

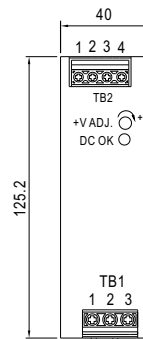
Case No.992D



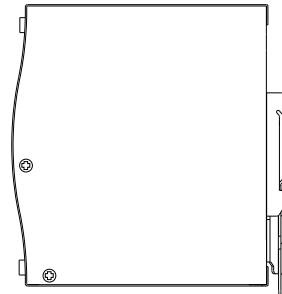
Side View



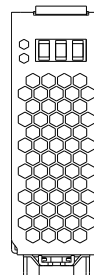
Top View



Front View



Side View



Bottom View

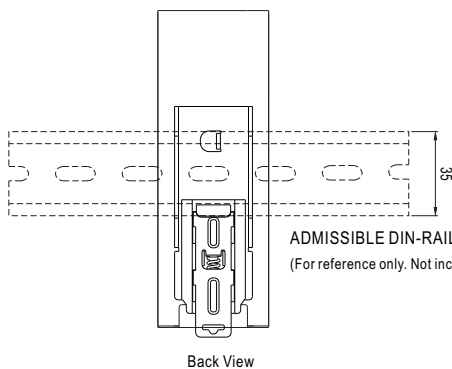
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG $\oplus$
2	AC/N or DC -
3	AC/L or DC +

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	DC OUTPUT -V
3,4	DC OUTPUT+V

Installation Instruction



Back View

ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>