




MEAN WELL EDR-75-12 Single Output Industrial Installation Guide

[Home](#) » [MEAN WELL](#) » MEAN WELL EDR-75-12 Single Output Industrial Installation Guide 

Contents

- [1 MEAN WELL EDR-75-12 Single Output Industrial](#)
- [2 Features](#)
- [3 Description](#)
- [4 SPECIFICATION](#)
- [5 Installation Instruction](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)



MEAN WELL EDR-75-12 Single Output Industrial



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

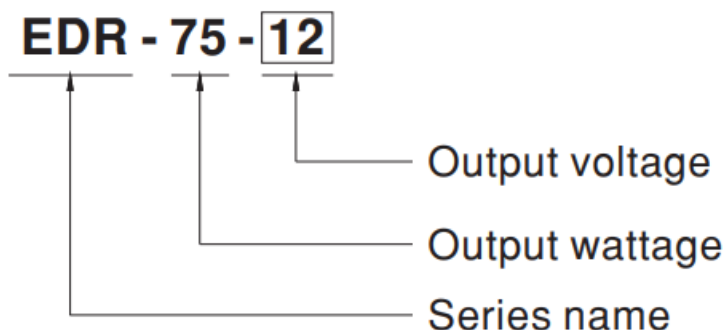
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Description

EDR-75 is one economical slim 75W Din rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 32mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90 VAC to 264VAC and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current. EDR-75 is designed with metal housing that enhances the unit's

power dissipation. With working efficiency up to 88.5%, 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-75 a very competitive power supply solution for industrial applications.

Model Encoding



SPECIFICATION

MODEL		EDR-75-12	EDR-75-24	EDR-75-48
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	6.3A	3.2A	1.6A
	CURRENT RANGE	0 ~ 6.3A	0 ~ 3.2A	0 ~ 1.6A
	RATED POWER	75.6W	76.8W	76.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	1200ms, 60ms/230VAC 2000ms, 60ms/115VAC at full load		
	HOLD UP TIME (Typ.)	60ms/230VAC 12ms/115VAC at full load		
	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]		
	FREQUENCY RANGE	47 ~ 63Hz		

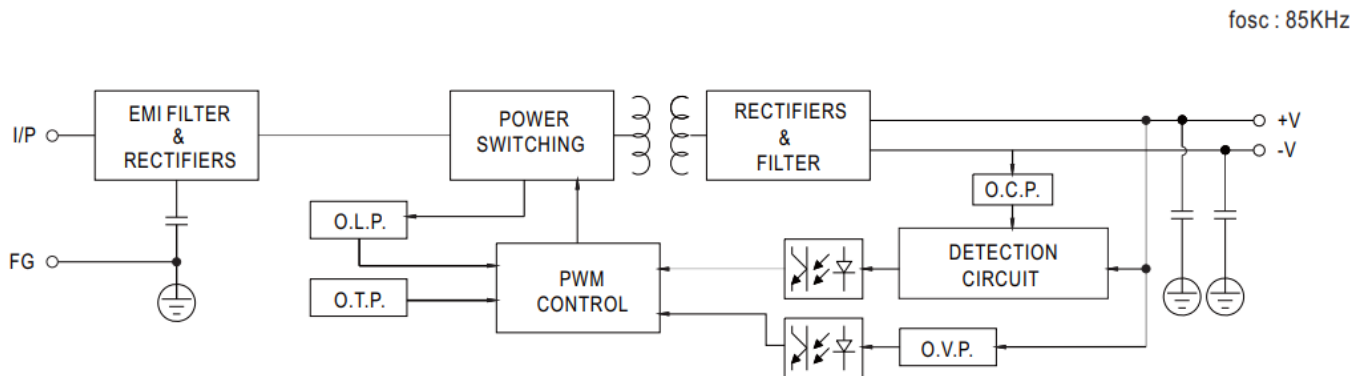
INPUT	EFFICIENCY (Typ.)	85.5%	87.5%	88.5%
	AC CURRENT (Typ.)	1.45A/115VAC 0.9A/230VAC		
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC		
	LEAKAGE CURRENT	<1mA / 240VAC		
PROTECTION	OVERLOAD	105 ~ 130% rated output power		
		Protection type : Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V
		Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")		
	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,-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	2777.2K hrs min. Telcordia SR-332 (Bellcore) ; 506.6K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	32*125.2*102mm (W*H*D)		
	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT		

NOTE

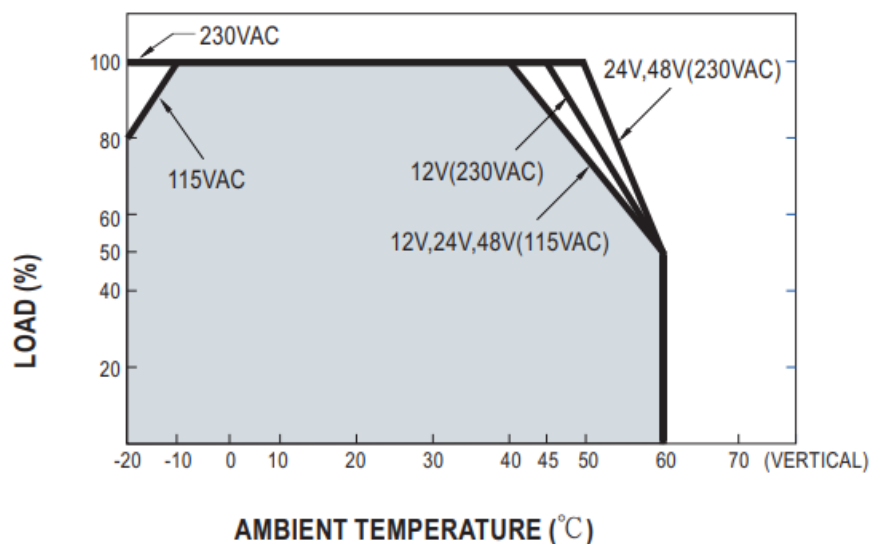
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.
3. Tolerance : includes set up tolerance, line 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. 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>

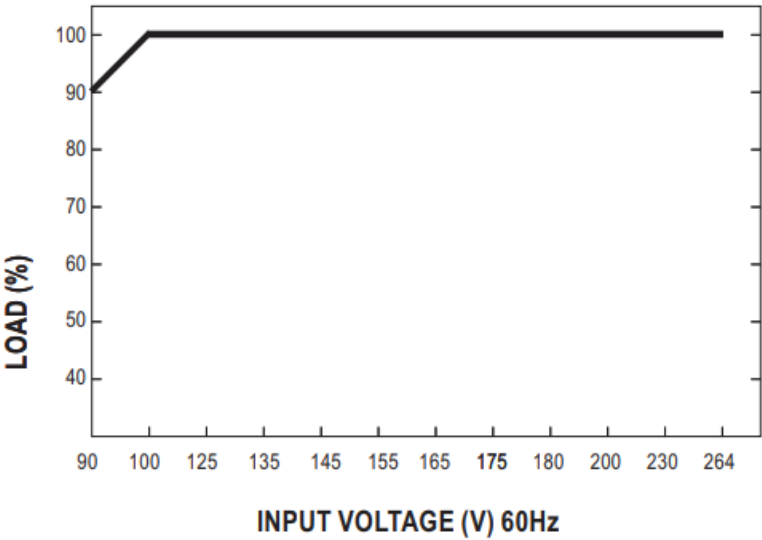
Block Diagram



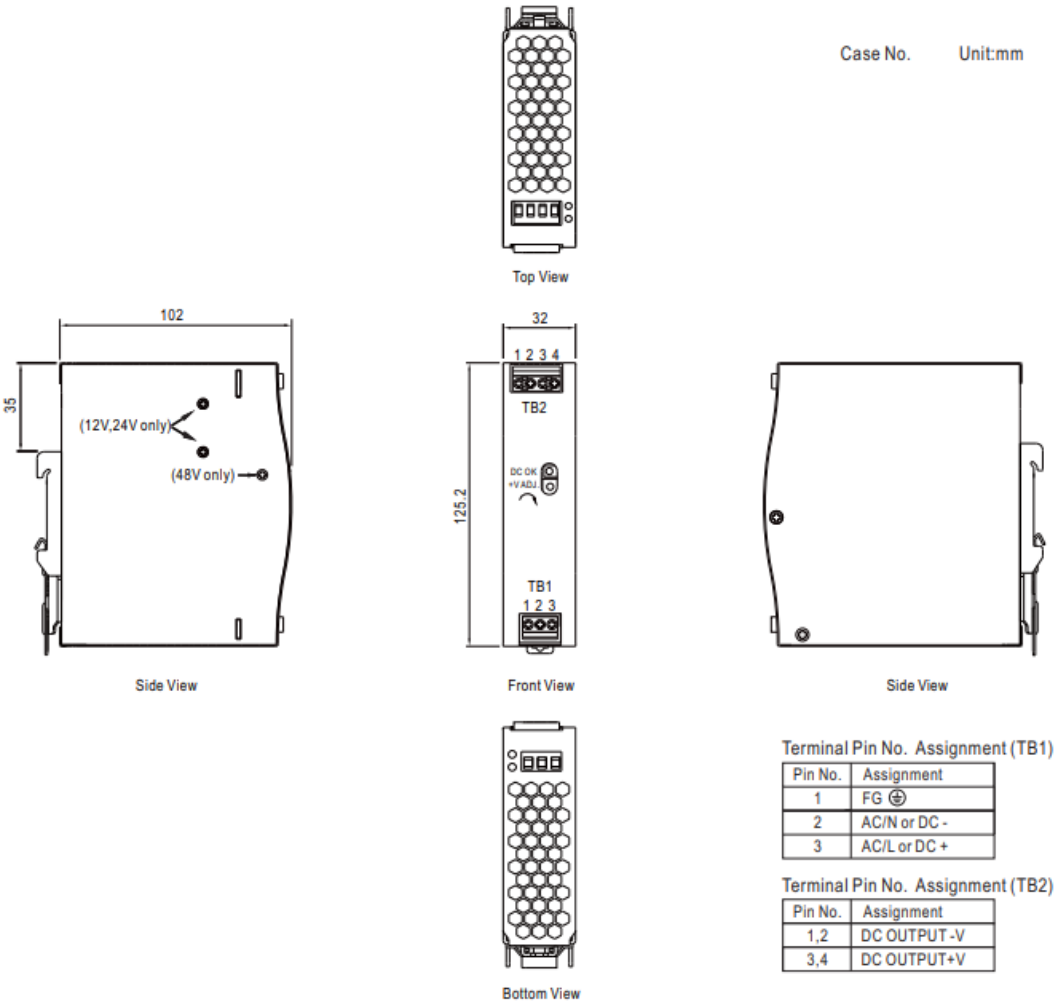
Derating Curve



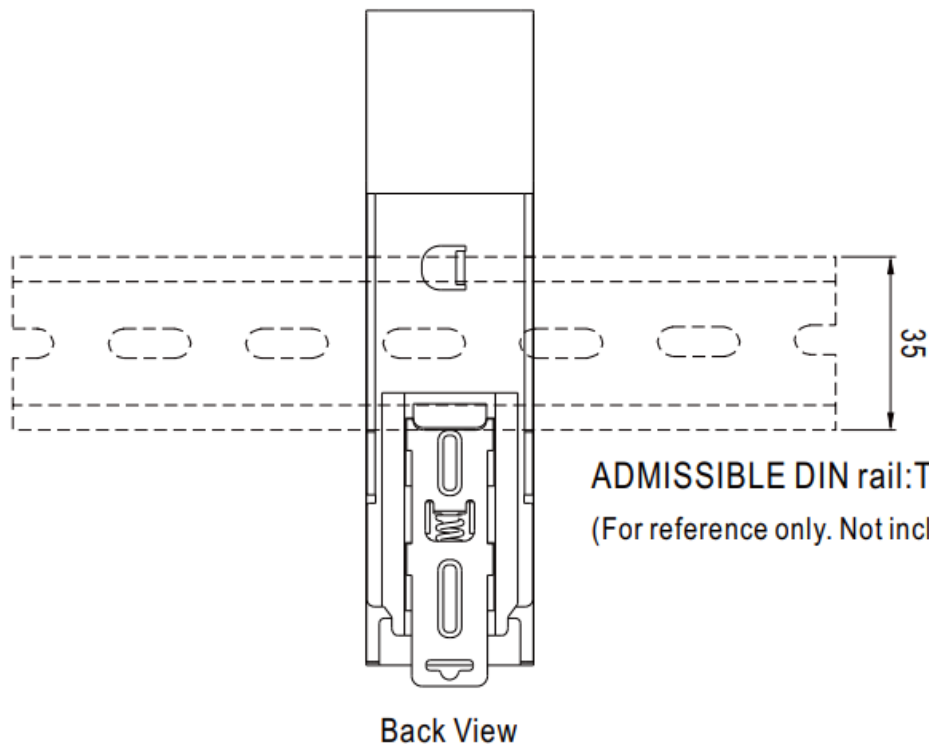
Static Characteristics



Mechanical Specification



Installation Instruction



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>

Documents / Resources



[MEAN WELL EDR-75-12 Single Output Industrial](#) [pdf] Installation Guide
EDR-75-12, EDR-75-24, EDR-75-48, EDR-75-12 Single Output Industrial, EDR-75-12, Single Output Industrial, Output Industrial, Industrial

References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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