





#### 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
- EN61000-6-2(EN50082-2) industrial immunity level
- · 100% full load burn-in test
- · 2 years warranty

## Applications

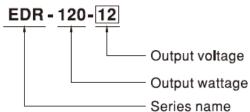
- · Industrial control system
- Semiconductor fabrication equipment
- · Factory automation
- Electro-mechanical apparatus

### Description

EDR-120 is one economical slim 120W DIN rail power supply series, 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 EN61000-3-2, the norm the European Union regulates for harmonic current.

EDR-120 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 EN60950-1, and etc.) make EDR-120 a very competitive power supply solution for industrial applications.

## ■ Model Encoding



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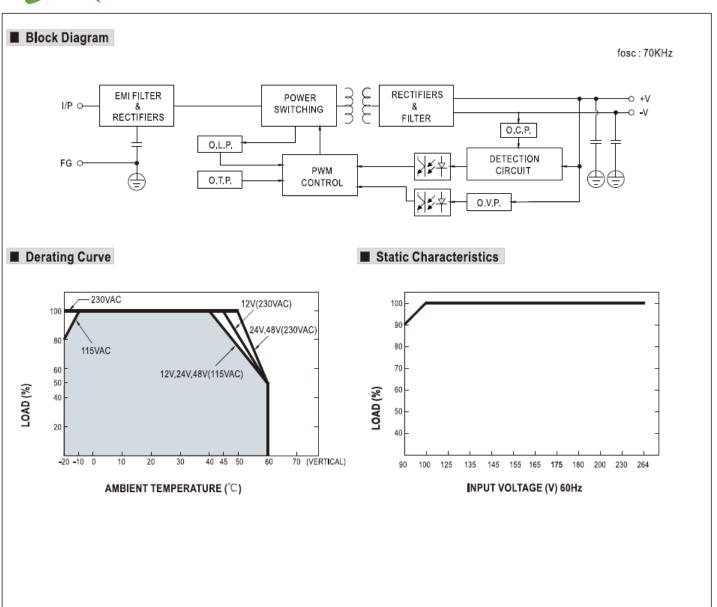


# 120W Single Output Industrial DIN RAIL

### **SPECIFICATION**

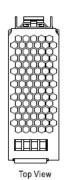
MODEL		EDR-120-12	EDR-120-24	EDR-120-48	
OUTPUT	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A	
	RATED POWER	120W	120W	120W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note_3	±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 2500ms, 60m	s/115VAC at fu <b>∎ l</b> oad		
	HOLD UP TIME (Typ.)	16ms/230VAC 10ms/115VAC at full lo	ad		
	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC	[DC input operation possible by connecting	AC/L(+), AC/N(-)]	
INPUT	FREQUENCY RANGE	47 ~ 63Hz	,		
	EFFICIENCY (Typ.)	85%	87.5%	88.5%	
	AC CURRENT (Typ.)	2.25A/115VAC 1.3A/230VAC			
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC			
	OVERLOAD	105 ~ 130% rated output power			
PROTECTION		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 STANDARDS	UL508, TUV EN60950-1 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0,5KVAC			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH			
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class A, EN61000-3-2,-3			
	EMC MMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A			
OTHERS	MTBF	474.6K hrs min. MIL-HDBK-217F (25°C	)		
	DIMENSION	40*125.2*113.5mm (W*H*D)			
	PACKING PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.				
	<ol> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> </ol>				
	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.				
	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.			
	<ol><li>Derating may be needed ur</li></ol>	nder low input voltage. Please check the d	erating curve for more details.		

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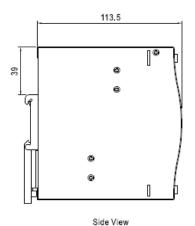


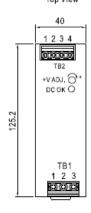


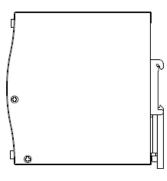
### ■ Mechanical Specification



Case No.992D Unit:mm

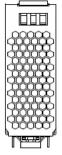






Front View

Side View



Terminal Pin No. Assignment (TB1)

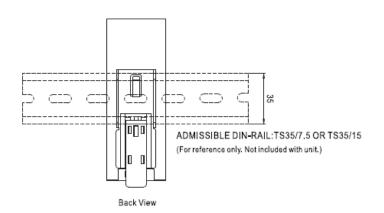
Pin No.	Assignment		
1	FG ⊕		
2	AC/N or DC -		
3	AC/L or DC +		

Bottom View

Terminal Pin No. Assignment (TB2)

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

### ■ Installation Instruction



This series fits DIN-RAIL TS35/7.5 or TS35/15. For installation details, please refer to the USER MANUAL on http://www.meanwell.com/search/EDR-120/EDR\_manual.pdf