















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

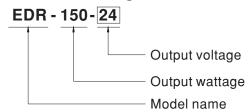
- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- · Electro-mechanical apparatus

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(≦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

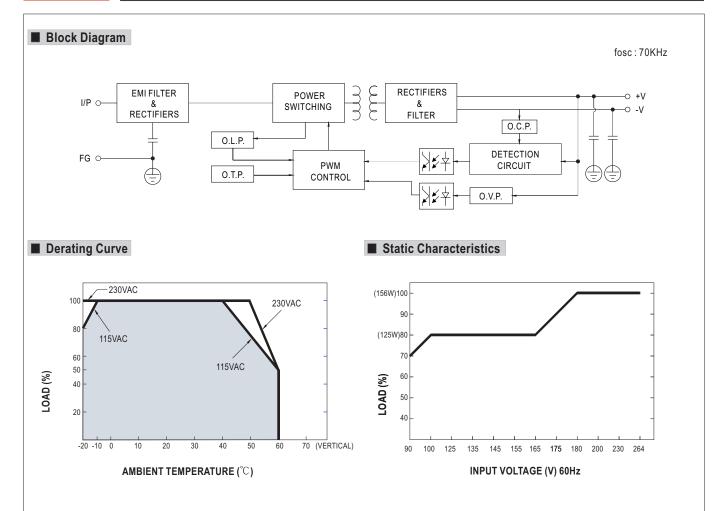




SPECIFICATION

DC VOLTAGE 24V RATEO CURRENT 6.5A / 230VAC 5.2A / 115VAC CURRENT RANGE 0.9 - 6.5A / 230VAC 0.5 2A / 115VAC RATEO POWER 156W / 230VAC 125W / 115VAC RATEO POWER 1.0% 1.0	MODEL		EDR-150-24	
CURRENT RANGE 1-56W / 230VAC 1-25W / 115VAC 125W /		DC VOLTAGE	24V	
RATED POWER 156W / 230VAC 125W / 115VAC RIPPLE & NOISE (max.) Note.2 150mVp-p 24 - 28V 25 - 28V 26 - 28V 26 - 28V 27 - 28V 27 - 28V 2	ОИТРИТ	RATED CURRENT	6.5A / 230VAC 5.2A / 115VAC	
Note Component Componen		CURRENT RANGE	0 ~ 6.5A / 230VAC 0 ~ 5.2A / 115VAC	
OUTPUT		RATED POWER	156W / 230VAC 125W / 115VAC	
VOLTAGE TOLERANCE Note 3		RIPPLE & NOISE (max.) Note.2	150mVp-p	
LINE REGULATION		VOLTAGE ADJ. RANGE	24 ~ 28V	
LOAD REGULATION		VOLTAGE TOLERANCE Note.3	±1.0%	
SETUP, RISE TIME		LINE REGULATION	±0.5%	
HOLD UP TIME (Typ.)		LOAD REGULATION	±1.0%	
VOLTAGE RANGE		SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load	
FREQUENCY RANGE		HOLD UP TIME (Typ.)	16ms/230VAC 10ms/115VAC at full load	
INPUT AC CURRENT (Typ.) 2.6A/115VAC 1.7A/230VAC		VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]	
AC CURRENT (Typ.) 2.6A/115VAC 1.7A/230VAC 1.7A/23		FREQUENCY RANGE	47 ~ 63Hz	
AC CURRENT (Typ.) 2.6A/115VAC 1.7A/230VAC 1.7A/23	INDUT	EFFICIENCY (Typ.)	87%	
Description Component: 10 × 50°C Compo	INPUT	AC CURRENT (Typ.)	2.6A/115VAC 1.7A/230VAC	
PROTECTION Note.7 Note.7 Note.7 Note.7 Note.7 Note.7 OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY & SAFETY & SAFETY & EMC (Note 4) SAFETY & EMC (Note 4) PROTECTION Note.7 Note.7 Note.7 Note.7 Note.7 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29 ~ 33V Protection type : Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover Vibradion 20 ~ 95% RH non-condensing ±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) EMC EMISSION 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 / 230VAC 105 ~ 150% 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 29 ~ 33V Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29 ~ 33V Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29 ~ 33V Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29 ~ 33V Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29 ~ 33V Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29 ~ 33V Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29			20A/115VAC 35A/230VAC	
PROTECTION Note.7 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 29 ~ 33V Protection type : Shut down o/p voltage, re-power on to recover OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 SAFETY & SAFETY STANDARDS WITHSTAND VOLTAGE IND-O/P.3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE WIP-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN61000-3-3, EAC TP TC 020, CNS13438 Class A Compliance to BS EN/EN61000-3-3, EAC TP TC 020, CNS13438 Class A Compliance to BS EN/EN65032 (CISPR32) Class A, BS EN/EN61000-3-2, Class A (≤80% Load), BS EN/EN61000-3-3, EAC TP TC 020, CNS13438 Class A		LEAKAGE CURRENT	<1mA/240VAC	
PROTECTION Note.7 105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 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") WORKING HUMIDITY 20 ~ 95% RH non-condensing ENVIRONMENT 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 WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC SAFETY & BOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH 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, CNS13438 Class A			105 ~ 130% rated output power	
PROTECTION 105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed / 115VAC 29 ~ 33V Protection type : Shut down o/p voltage, re-power on to recover		OVERLOAD Note 7	Protection type: Constant current limiting, recovers automatically after fault condition is removed / 230VAC	
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WORKING TEMP20 ~ +60 °C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +85 °C , 10 ~ 95% RH TEMP. COEFFICIENT $\pm 0.03\%$ °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 BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; (meet BS EN/EN60204-1) WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC SAFETY & EMC (Note 4) 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, CNS13438 Class A		OVERVOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover	
ENVIRONMENT 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT $\pm 0.03\%$ °C (0 ~ 50°C) VIBRATION $\pm 0.03\%$ °C (0 ~ 50°C) Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; (meet BS EN/EN60204-1) WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE IFO./P. I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH EMC EMC 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, CNS13438 Class A		OVER TEMPERATURE		
ENVIRONMENT STORAGE TEMP., HUMIDITY $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH TEMP. COEFFICIENT $\pm 0.03\%$ °C ($0 \sim 50^{\circ}\text{C}$) VIBRATION Component: $10 \sim 500$ Hz, $2G$ 10min./1cycle, 60 min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 SAFETY STANDARDS UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 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 (Note 4) EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class A, BS EN/EN61000-3-2, Class A ($\leq 80\%$ Load), BS EN/EN61000-3-3, EAC TP TC 020, CNS13438 Class A	ENVIRONMENT	WORKING TEMP.		
TEMP. COEFFICIENT $\pm 0.03\%$ °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 BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 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 (Note 4) 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, CNS13438 Class A		WORKING HUMIDITY	, and the second	
VIBRATION Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 SAFETY STANDARDS UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 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 (Note 4) 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, CNS13438 Class A		STORAGE TEMP., HUMIDITY		
SAFETY STANDARDS UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; (meet BS EN/EN60204-1)		TEMP. COEFFICIENT		
WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC SAFETY & ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH EMC (Note 4) 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, CNS13438 Class A		-		
SAFETY & EMC (Note 4) ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH EMC (Note 4) 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, CNS13438 Class A	EMC			
EMC (Note 4) 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, CNS13438 Class A				
(Note 4) EMC EMISSION EAC TP TC 020, CNS13438 Class A		ISOLATION RESISTANCE		
EAC IP TO 020, ONS 13438 Class A		EMC EMISSION		
EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN65024, BS EN/EN61000-6-2 (BS EN/EN60082-2), heavy industry level, criteria A, EAC TP TC 020		EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2 (BS EN/EN50082-2),	
MTBF 472.5K hrs min. MIL-HDBK-217F (25°C)	OTHERS	MTBF		
PACKING 0.6Kg; 20pcs/13Kg/1.16CUFT				
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 0.1uf & 47uf parallel capacitor.		1 '		
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.				
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 $3.5^{\circ}\text{C}/1000\text{m}$ with fanless models and of $5^{\circ}\text{C}/1000\text{m}$ with fan models for operating altitude higher than $2000\text{m}(6500\text{ft})$.		
Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		· ·		

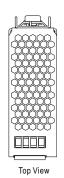




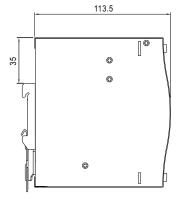
Unit:mm



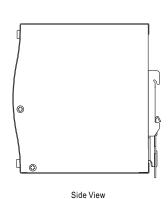
■ Mechanical Specification



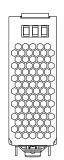
Case No.992D



TB2
+VADJ. (*)
DC OK (*)



Side View



Bottom View

Front View

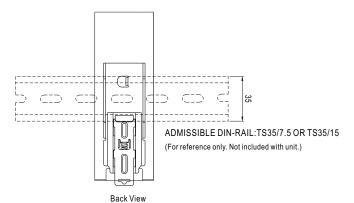
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG ⊕
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



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