



■ Features

- Universal AC input
- Protection: 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 year warranty

■ Applications

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

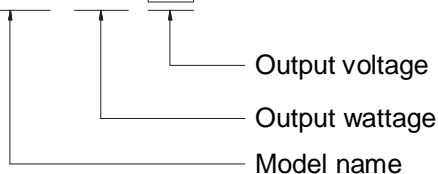
■ Description

The EDR-150-24 is an economical and slim 150W DIN rail power supply, designed to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is only 40mm wide which provides much space saving inside the electrical cabinet. The unit features a full range AC input capability from 90VAC to 264VAC and conforms to EN61000-3-2 ($\leq 80\%$ load)... the norm for EU regulations for harmonic current.

The EDR-150-24 has a metal housing that enhances the unit's power dissipation. With a working efficiency up to 87%, the unit can operate at the ambient temperatures between -20°C and 60°C using air convection cooling only. It is equipped with constant current mode for over-load protection making it ideal for a wide variety of inductive or capacitive load conditions. With all the protection functions and relevant certificates for industrial control apparatus (UL508, TUV EN60950-1 etc.) the EDR-150-24 provides a very competitive power supply solution for industrial applications. It is particularly suited to replacing 120 Watt 24 Volt power supplies, such as the DR-120-24, where higher continuous output or higher temperature operation is required.

■ Model Encoding

EDR - 150 - 24



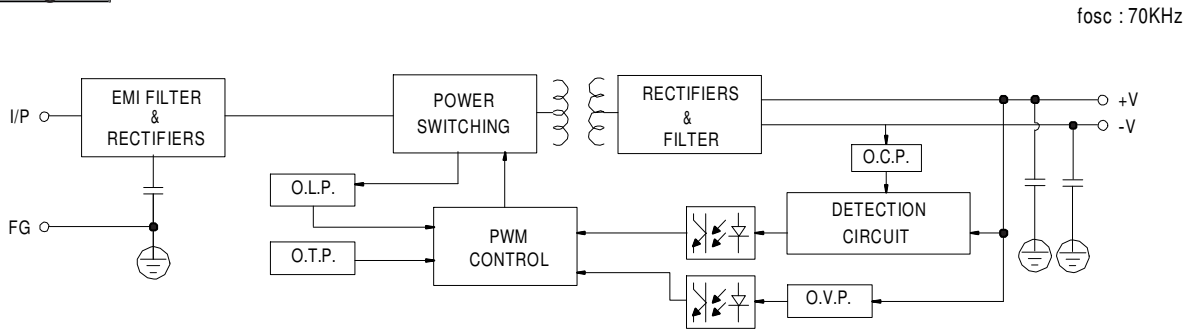


SPECIFICATIONS

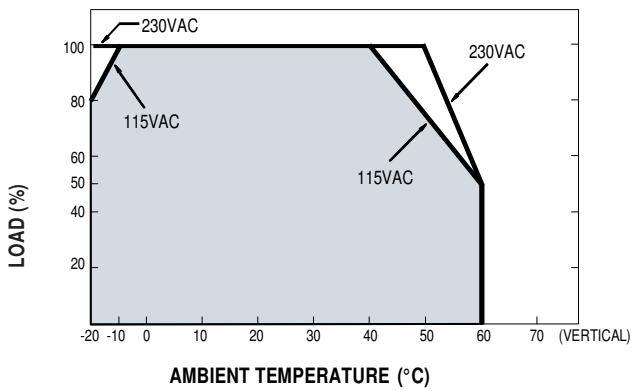
| MODEL | | EDR-150-24 |
|-----------------------|---|--|
| OUTPUT | DC VOLTAGE | 24V |
| | RATED CURRENT | 6.5A / 230VAC 5.2A / 115VAC |
| | CURRENT RANGE | 0 ~ 6.5A / 230VAC 0 ~ 5.2A / 115VAC |
| | RATED POWER | 156W / 230VAC 125W / 115VAC |
| | RIPPLE & NOISE (max) Note.2 | 150mVp-p |
| | VOLTAGE 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 |
| 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 | UL508, TUV EN60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; (meets 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 EN55032 (CISPR32) Class A, EN61000-3-2, Class A (≤80% Load), EN61000-3-3, EAC TP TC 020, CNS13438 Class A |
| OTHERS | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020 |
| | MTBF | 472.5Khrs min. MIL-HDBK-217F (25°C) |
| | DIMENSIONS (WxHxD) | 40x125.2x113.5mm |
| | WEIGHT | 0.6kg |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.</p> <p>2. Ripple & noise is measured at 20MHz of bandwidth using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into O.E.M. equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right sides are recommended when loaded continuously at full power output. If the adjacent device is a heat source, a 15mm clearance is recommended on the sides.</p> <p>6. Derating may be needed under low input voltage conditions. Please see the derating curve for more detail.</p> <p>7. Hiccup mode at 90~100VAC, recovers automatically after fault condition is removed.</p> <p>8. The ambient temperature derating is 3.5°C/1000m at altitudes higher than 2000m (6500ft) for fanless models such as the EDR-150-24.</p> | |



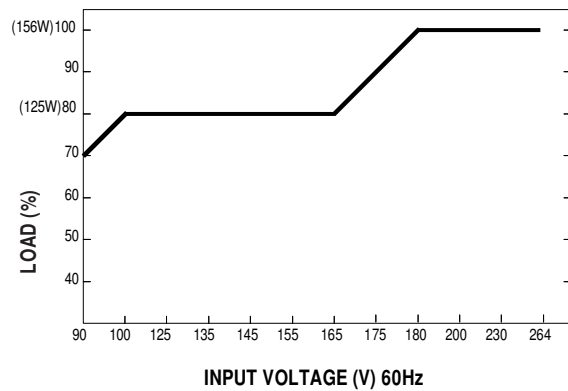
Block Diagram



Derating Curve



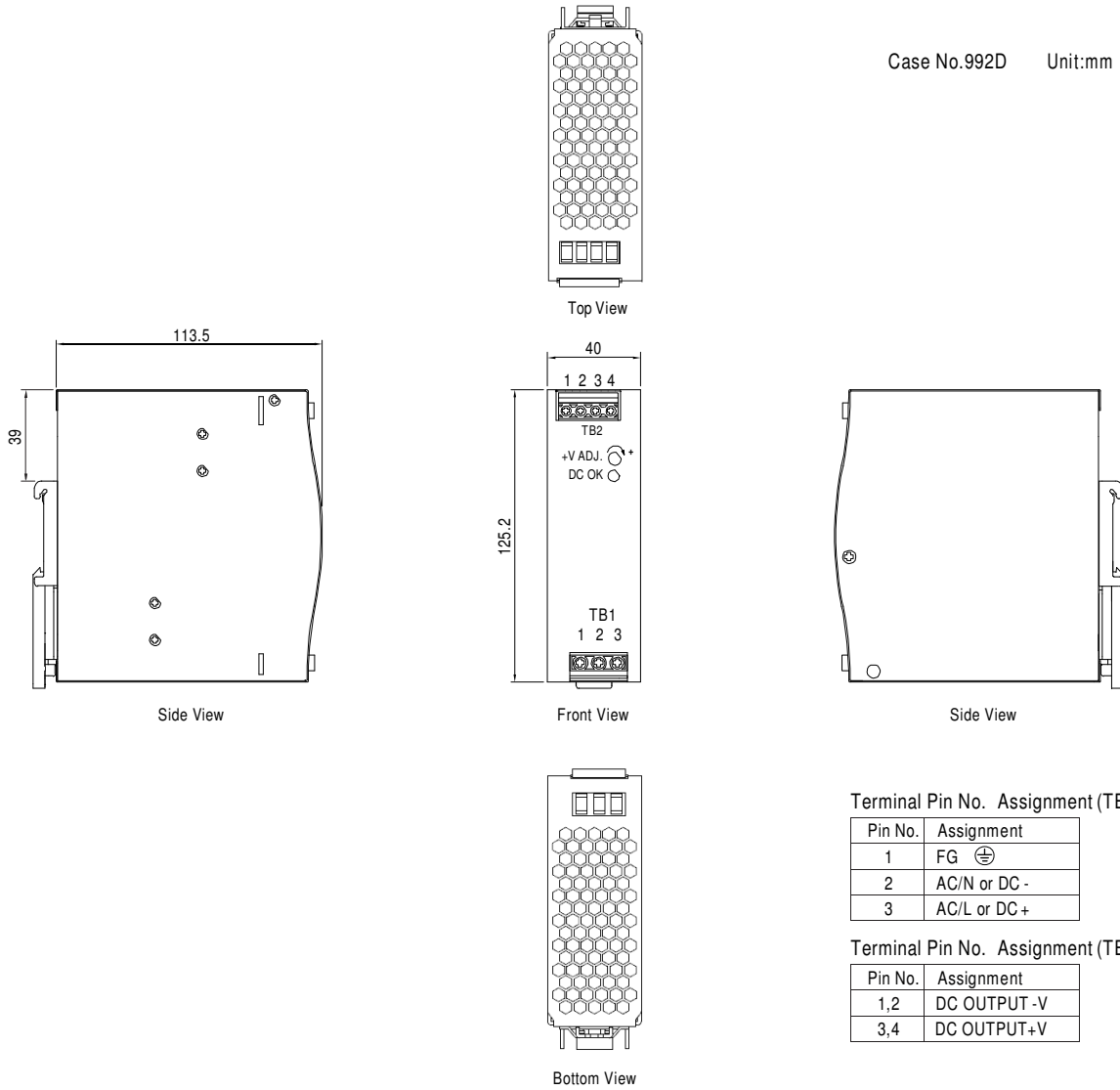
Static Characteristics



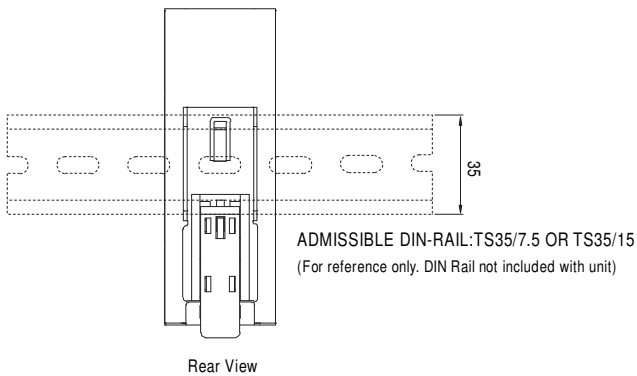


■ Mechanical Specification

Case No.992D Unit:mm



■ Installation Instructions



For installation details, please refer to the USER MANUAL
www.procontechology.com.au/files/mwmanual.pdf
www.meanwell.com/Upload/PDF/EDR-150/EDR%20DIN%20rail.pdf