



480W Single Output Industrial DIN RAIL with PFC Function

DRP-480 series



■ Features :

- Built-in passive PFC function compliance to EN61000-3-2
- High efficiency 89% and low dissipation
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- 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
- 3 years warranty



SPECIFICATION

| MODEL | | DRP-480-24 | DRP-480-48 |
|-----------------------|---|--|------------|
| OUTPUT | DC VOLTAGE | 24V | 48V |
| | RATED CURRENT | 20A | 10A |
| | CURRENT RANGE | 0 ~ 20A | 0 ~ 10A |
| | RATED POWER | 480W | 480W |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p | 120mVp-p |
| | VOLTAGE ADJ. RANGE | 24 ~ 28V | 48 ~ 53V |
| | VOLTAGE TOLERANCE Note.3 | ±1.0% | ±1.0% |
| | LINE REGULATION | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±1.0% | ±1.0% |
| | SETUP, RISE, HOLD TIME | 1200ms, 40ms, 16ms/230VAC at full load | |
| INPUT | VOLTAGE RANGE | 180 ~ 264VAC 250 ~ 370VDC | |
| | FREQUENCY RANGE | 47 ~ 63Hz | |
| | POWER FACTOR | ≥ 0.7 | |
| | EFFICIENCY (Typ.) | 89% | |
| | AC CURRENT | 4A/230VAC | |
| | INRUSH CURRENT (max.) | COLD START 50A/230VAC | |
| | LEAKAGE CURRENT | <3.5mA / 240VAC | |
| PROTECTION | OVER LOAD | 105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed | |
| | OVER VOLTAGE | 30 ~ 36V | 54 ~ 60V |
| | OVER TEMPERATURE | 100°C ±5°C (TSW : Detect on heatsink of power switch) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +70°C (Refer to output load derating curve) | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL508, UL60950-1, TUV EN60950-1 Approved | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | |
| OTHERS | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A | |
| | MTBF | 180,9Khrs min. MIL-HDBK-217F (25°C) | |
| | DIMENSION | 227*125.2*100mm (W*H*D) | |
| | PACKING | 2.4Kg; 6pcs/15Kg/1.75CUFT | |
| 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 0.1uf & 47uf 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. | | |

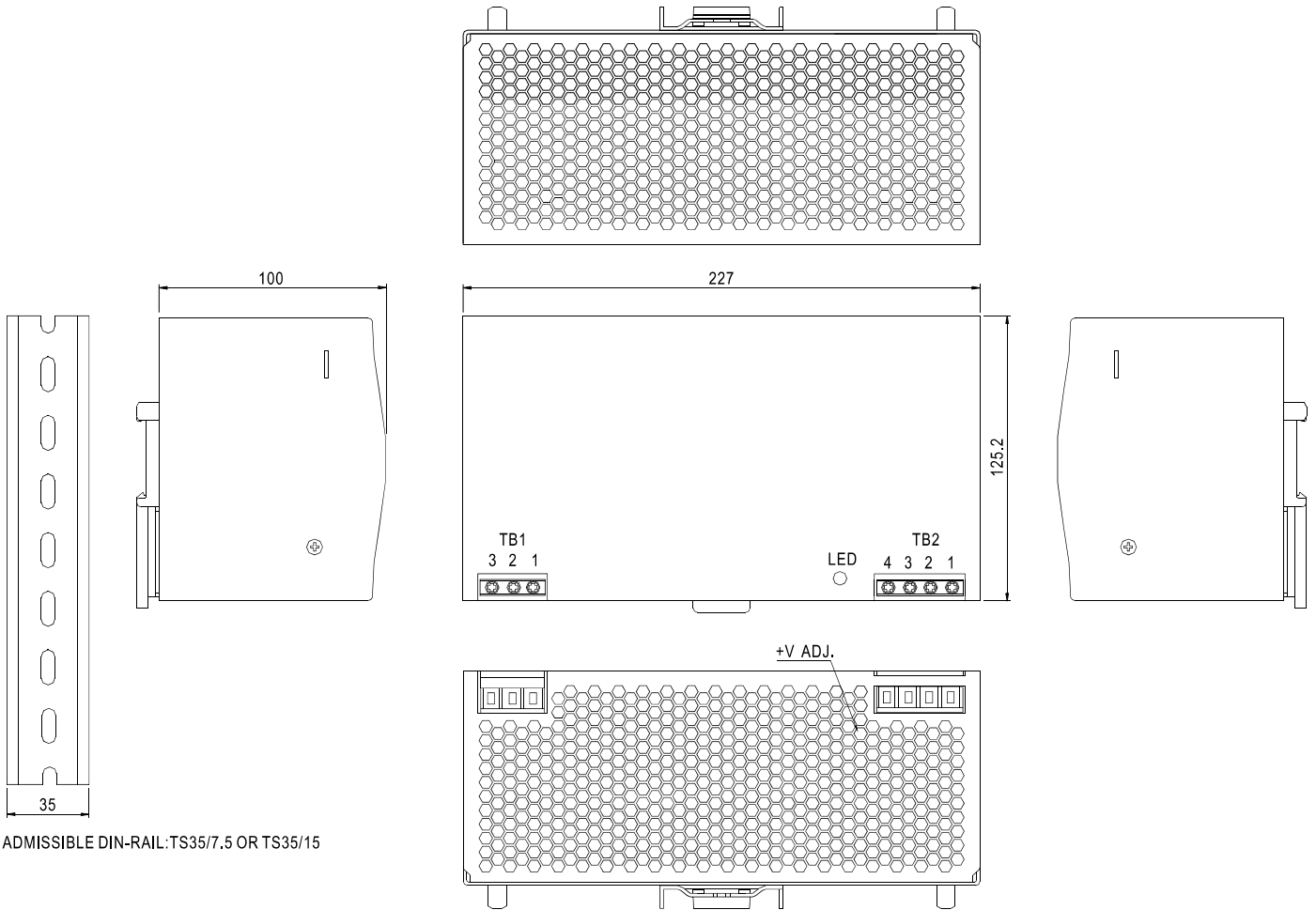


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Mechanical Specification

Case No.930 Unit:mm



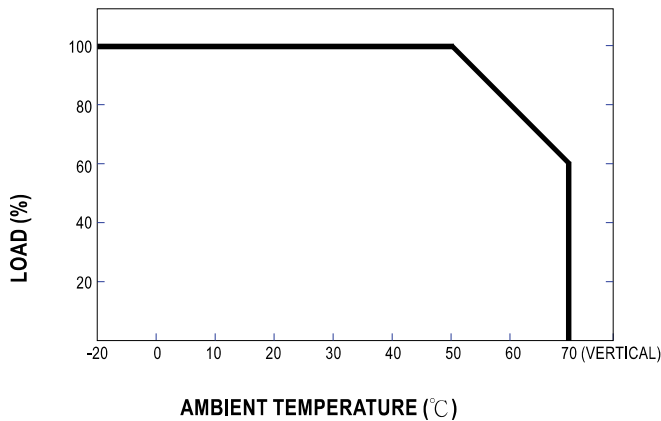
TB1 Terminal Pin. No Assignment

| Pin No. | Assignment |
|---------|------------|
| 1 | AC/L(DC+) |
| 2 | AC/N(DC-) |
| 3 | FG (⊖) |

TB2 Terminal Pin. No Assignment

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

Derating Curve



Output Derating VS Input Voltage

