



■ Features :

- Single and two phase wide input range 180~550VAC
- Built-in active PFC circuit compliance to EN61000-3-2
- High efficiency 93% and low power dissipation
- 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
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

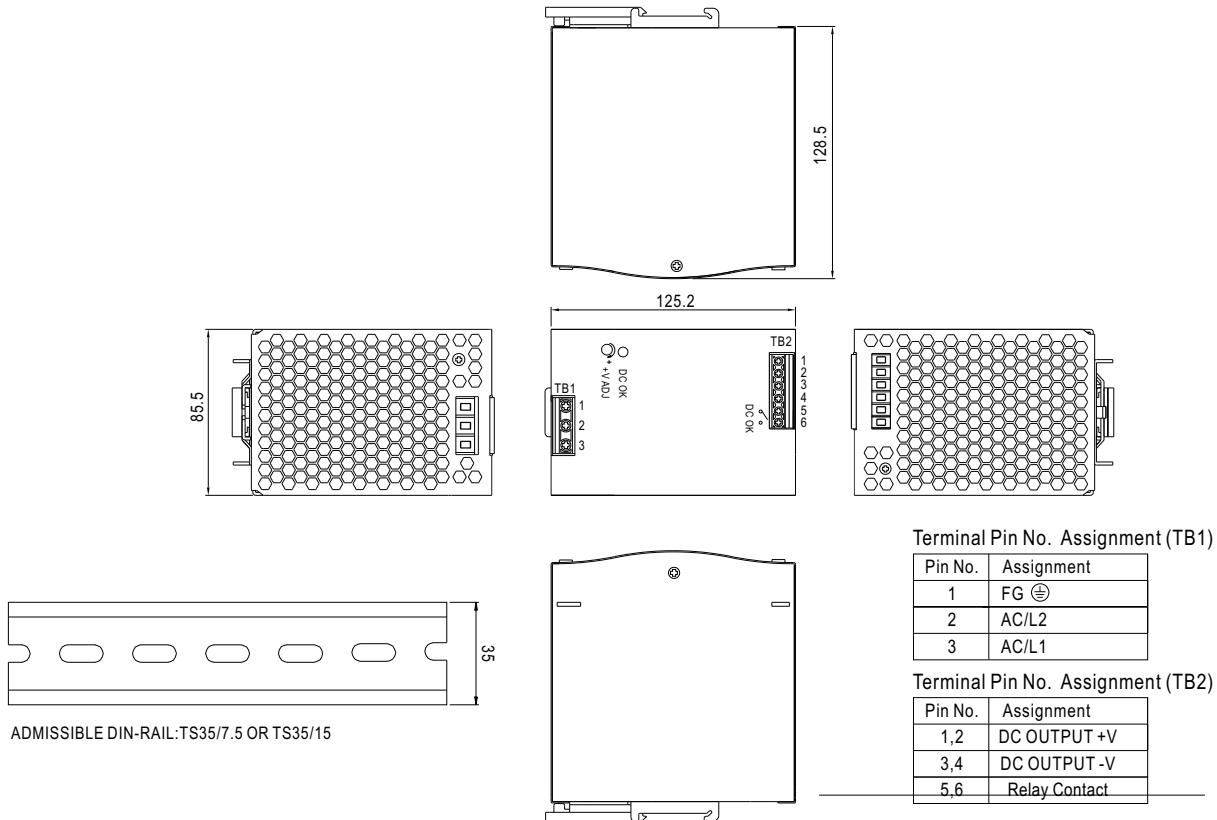


SPECIFICATION

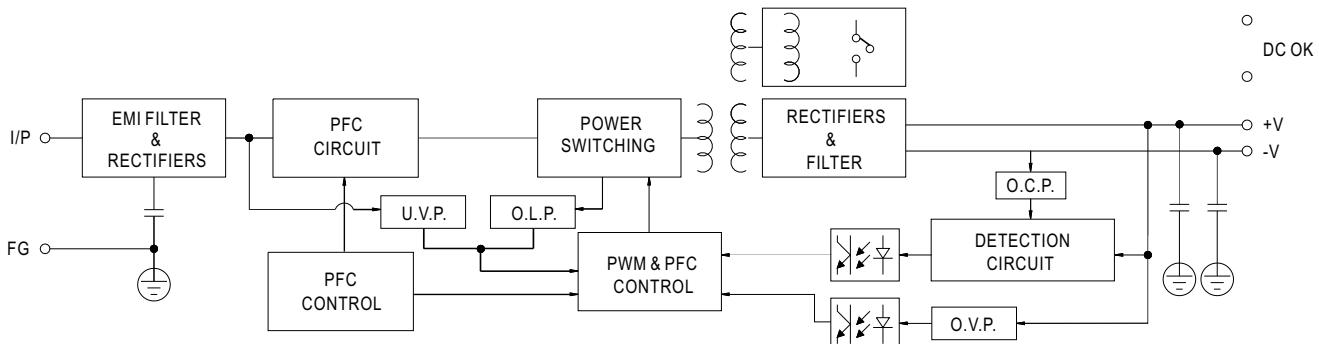
| MODEL | WDR-480-24 | WDR-480-48 |
|-----------------------|---|--|
| OUTPUT | DC VOLTAGE | 24V |
| | RATED CURRENT | 20A |
| | CURRENT RANGE | 0 ~ 20A |
| | RATED POWER | 480W |
| | RIPLLE & NOISE (max.) Note.2 | 100mVp-p |
| | VOLTAGE ADJ. RANGE | 24 ~ 28V |
| | VOLTAGE TOLERANCE Note.3 | ±1.0% |
| | LINE REGULATION | ±0.5% |
| | LOAD REGULATION | ±1.0% |
| | SETUP, RISE TIME | 800ms, 150ms/400VAC 2000ms, 150ms/230VAC at full load |
| INPUT | HOLD UP TIME (Typ.) | 18ms / 400VAC 16ms / 230VAC at full load |
| | VOLTAGE RANGE Note.6 | 180 ~ 550VAC 254 ~ 780VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| | POWER FACTOR (Typ.) | PF ≥ 0.84/400VAC PF ≥ 0.84/230VAC |
| | EFFICIENCY (Typ.) | 92% 93% |
| | AC CURRENT (Typ.) | 1.6A/400VAC 4A/230VAC |
| | INRUSH CURRENT (Typ.) | COLD STAR 50A |
| PROTECTION | LEAKAGE CURRENT | <3.5mA / 530VAC |
| | OVERLOAD | 105 ~ 130% rated output power Protection type : Constant current limiting, unit will shut down after 3 sec., auto-recovery after 1 minute if the fault condition is removed |
| | OVER VOLTAGE | 29 ~ 33V 56 ~ 65V Protection type : Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed |
| | OVER TEMPERATURE | 95°C ±5°C (TSW) detect on heatsink of power switch Protection type : Shut down o/p voltage, recovers automatically after temperature goes down |
| FUNCTION | DC OK REALY CONTACT RATINGS (max.) | 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load |
| ENVIRONMENT | WORKING TEMP. Note.5 | -30 ~ +70°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 approved, IEC60950-1 CB approved by SIQ, design refer to GL |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK: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 EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2, -3 |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A approved |
| OTHERS | MTBF | 112.8Khrs min. MIL-HDBK-217F (25°C) |
| | DIMENSION | 85.5*125.2*128.5mm (W*H*D) |
| | PACKING | 1.7Kg; 8pcs/14.6Kg/0.9CUFT |
| NOTE | 1. All parameters NOT specially mentioned are measured at 400VAC 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. 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. | |

■ Mechanical Specification

Case No.984B Unit:mm

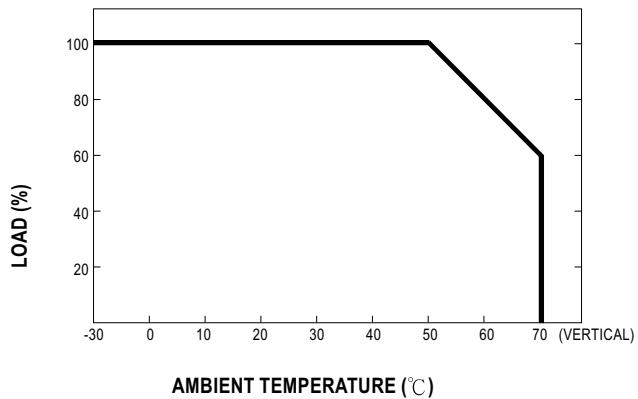


■ Block Diagram



■ DC OK Relay Contact

| | |
|------------------------|--------------------------|
| Contact Close | PSU turns on / DC OK. |
| Contact Open | PSU turns off / DC Fail. |
| Contact Ratings (max.) | 30V/1A resistive load. |

■ Derating Curve**■ Output derating VS input voltage**