# 30W Single Output Industrial DIN RAIL Power Supply DR-30 Series



Size：93*78*56mm

## Features:

- Universal AC input/Full range
- Protections:Short circuit/Overload/Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- LED indicator for power on
- No load power consumption<0.75W
- 100% full load burn-in test
- 2 years warranty

## SPECIFICATION

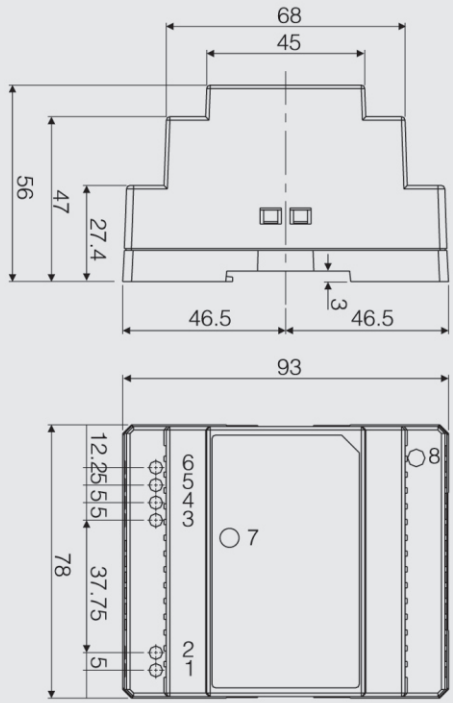
ISO9001:2008 CE RoHS

| MODEL | | DR-30-12 | DR-30-24 | DR-30-48 |
|---|---|---|---|---|
| OUTPUT | DC VOLTAGE | 12V | 24V | 48V |
| | RATED CURRENT | 2.5A | 1.25A | 0.63A |
| | CURRENT RANGE | 0-2.5A | 0-1.25A | 0-0.63A |
| | RATED POWER | 30W | 30W | 30W |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 100mVp-p | 120mVp-p |
| | VOLTAGE ADJ. RANGE | 12 ~ 15V | 24 ~ 30V | 48 ~ 56V |
| | VOLTAGE TOLERANCE | ±1.5% | ±1.0% | ±1.0% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±1.5% | ±1.0% | ±1.0% |
| | SETUP, RISE,HOLD UP TIME | 500ms、30ms/230VAC 1000ms,30ms/115VAC(full load) | | |
| INPUT | VOLTAGE RANGE | 85~264VAC ， 120~370VDC | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | EFFICIENCY (Typ.) | 77% | 80% | 82% |
| | AC CURRENT (Typ.) | 0.55A/115VAC 40A/230VAC | | |
| | INRUSH CURRENT (Typ.) | COLD START: 40A/230V | | |
| | LEAKAGE CURRENT | <1mA/240VAC | | |
| PROTECTION | OVERLOAD | 105 ~ 150% rated output power | | |
| | | Protection type : Constant current limiting, recovers automatically after fault condition is removed | | |
| | OVER VOLTAGE | 13.8~16.2V | 28.4~32.4V | 55.2~64.8V |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | |
| ENVIRONMENT | WORKING TEMP. | -10℃～+60℃ | | |
| | WORKING HUMIDITY | 20%-90%RH | | |
| | STORAGE TEMP., HUMIDITY | -20℃~+85℃，20%-90%RH | | |
| | VIBRATION | Component : 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | |
| SAFETY & EMC | SAFETY STANDARDS | CE和GB4943.1 safety standard | | |
| | WITHSTAND VOLTAGE | I/P-O/P:1.5KVAC 1minute I/P-FG:1.5KVAC 1minute O/P-PG:0.5KVAC 1minute | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC | | |
| | EMC EMISSION | EN61000-3-2:2014/EN61000-3-3:2013 | | |
| | EMC IMMUNITY | EN 55032:2015/EN55035:2017/60950-1 | | |
| OTHERS | MTBF | ≥327.9K hrs MIL-HDBK-217F(25℃) | | |
| | DIMENSION | L93*W78*H56mm | | |
| | PACKING | 0.25KG | | |
| NOTE | 1. All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature.<br>2. Ripple noise are measured at 20MHz of bandwidth by using a 12″twisted pair -wire terminated with a 0.1uf and 47uf parallel capacitors.<br>3. Tolerance includes set up tolerance,line regulation and load regulation.<br>4. Derating output is required under low input voltage. Please refer to the derating curve for details.<br>5. The power supply should be considered as a part of the components in the system. All EMC tests will test the test samples on a metal iron plate with a thickness of 1mm, a length of 360mm width of 360mm. | | | |

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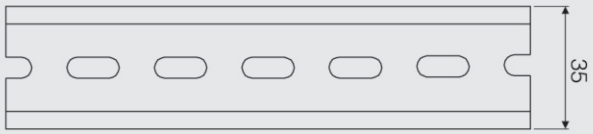
## Mechanical specification

Unit:mm



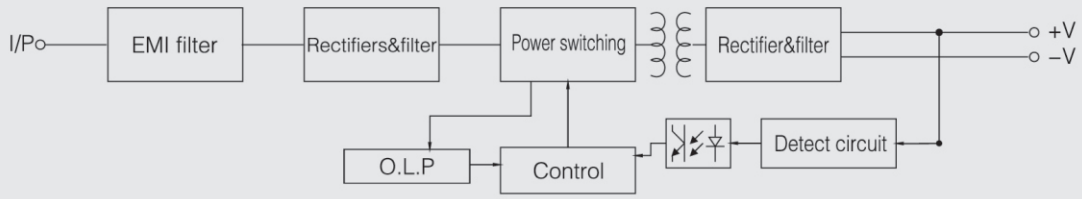

Terminal Pin No.Assignment

| Pin NO. | Assignment | Pin NO. | Assignment |
|---|---|---|---|
| 1 | AC/L | 5,6 | +V |
| 2 | AC/N | 7 | LED |
| 3,4 | -V | 8 | +V ADJ. |

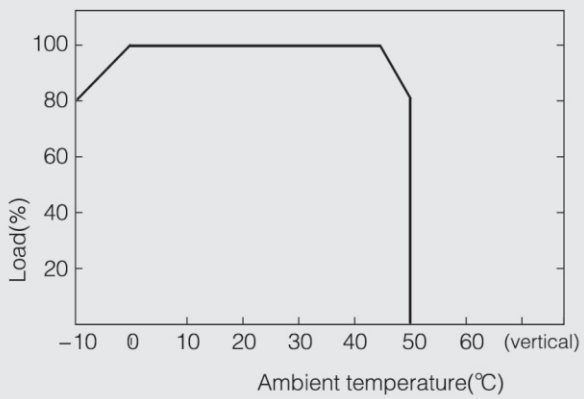



Install DIN rail:TS35/7.5 or TS35/15

## Block diagram




## Derating curve




## Static characteristic(24V)

