



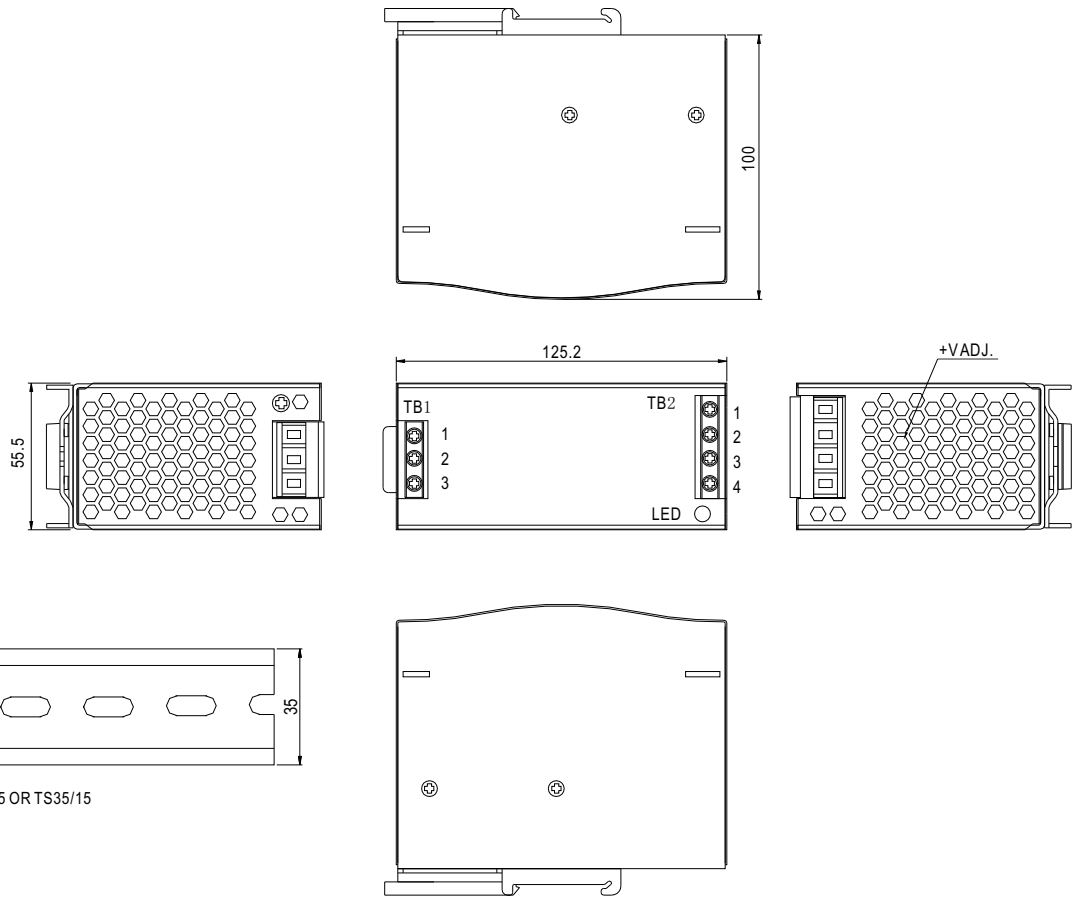
### Features :

- Universal AC input/Full range
- Protections: Short circuit/Over load/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
- LED indicator for power on
- 100% full load burn-in test
- Fix switching frequency at 50KHz

| MODEL                    | DR-75-12  | DR-75-24   | DR-75-48 |          |
|--------------------------|---|--|----------|----------|
| OUTPUT                   | DC VOLTAGE  | 12V  | 24V      | 48V      |
|                          | RATED CURRENT   | 6.3A   | 3.2A     | 1.6A     |
|                          | CURRENT RANGE   | 0 ~ 6.3A   | 0 ~ 3.2A | 0 ~ 1.6A |
|                          | RATED POWER   | 76W  | 76.8W    | 76.8W    |
|                          | RIPPLE & NOISE (max.) Note.2  | 100mVp-p   | 150mVp-p | 240mVp-p |
|                          | VOLTAGE ADJ. RANGE  | 12 ~ 14V   | 24 ~ 28V | 48 ~ 53V |
|                          | VOLTAGE TOLERANCE Note.3  | ±2.0%  | ±1.0%    | ±1.0%    |
|                          | LINE REGULATION   | ±0.5%  | ±0.5%    | ±0.5%    |
|                          | LOAD REGULATION   | ±1.0%  | ±1.0%    | ±1.0%    |
|                          | SETUP, RISE TIME  | 1000ms, 60ms/230VAC 180ms, 60ms/115VAC at full load  |          |          |
| HOLD TIME(Typ.)          | 60ms/230VAC 12ms/115VAC at full load  |  |          |          |
| INPUT                    | VOLTAGE RANGE   | 85 ~ 264VAC 120 ~ 370VDC   |          |          |
|                          | FREQUENCY RANGE   | 47 ~ 63Hz  |          |          |
|                          | EFFICIENCY (Typ.)   | 76%  | 80%      | 81%      |
|                          | AC CURRENT  | 1.6A/115VAC 0.96A/230VAC   |          |          |
|                          | INRUSH CURRENT(max.)  | COLD START 20A/115VAC 40A/230VAC   |          |          |
| LEAKAGE CURRENT          | <1mA/240VAC   |  |          |          |
| PROTECTION               | OVERLOAD  | 105 ~ 150% rated output power<br>Protection type : Constant current limiting,recovers automatically after fault condition is removed                   |          |          |
|                          | OVER VOLTAGE  | 15 ~ 16.5V   | 29 ~ 34V | 58 ~ 65V |
|                          | OVER TEMPERATURE  | 85°C±5°C (TSW1) Detect on heat sink of power transistor<br>Protection type : Shut down o/p voltage, recovers automatically after temperature goes down |          |          |
| ENVIRONMENT              | WORKING TEMP.   | -10 ~ +60°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<br>(Note 4) | SAFETY STANDARDS  | Design refer to UL508,TUV EN60950-1  |          |          |
|                          | 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   |          |          |
|                          | EMS IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A                                    |          |          |
| OTHERS                   | MTBF  | 123.1K hrs min. MIL-HDBK-217F (25°C)   |          |          |
|                          | DIMENSION   | 55.5*125.2*100mm (L*W*H)   |          |          |
|                          | PACKING   | 0.6Kg; 20pcs/13Kg/1.1CUFT  |          |          |
| NOTE                     | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> </ol> |  |          |          |

### Mechanical Specification

Unit: mm



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

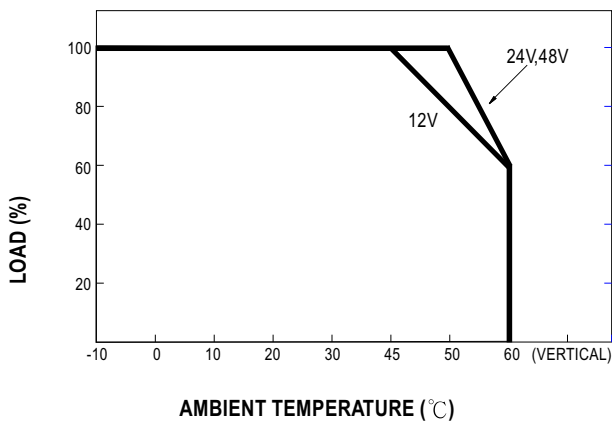
Terminal Pin. No Assignment (TB1)

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

Terminal Pin. No Assignment (Tb2)

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

### Output Derating



### Output Derating Vs Input Voltage

