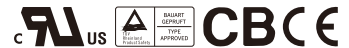




■ Features :

- Universal AC input / Full range
- 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
- Isolation class II
- LED indicator for power on
- No load power consumption < 1W
- 100% full load burn-in test
- 3 years warranty



**SPECIFICATION**

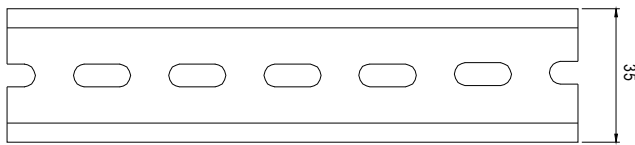
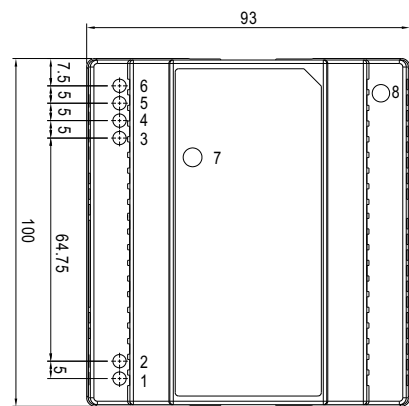
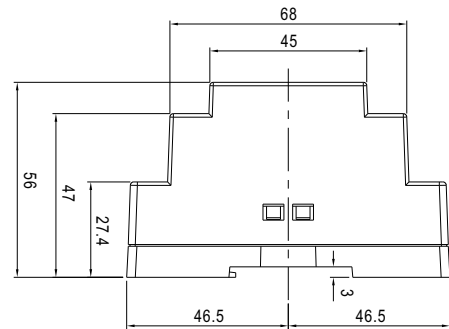
| MODEL                 | DR-100-12   | DR-100-15   | DR-100-24 |          |
|-----------------------|---|---|-----------|----------|
| OUTPUT                | DC VOLTAGE  | 12V   | 15V       | 24V      |
|                       | RATED CURRENT   | 7.5A  | 6.5A      | 4.2A     |
|                       | CURRENT RANGE   | 0 ~ 7.5A  | 0 ~ 6.5A  | 0 ~ 4.2A |
|                       | RATED POWER   | 90W   | 97.5W     | 100.8W   |
|                       | RIPPLE & NOISE (max.) Note.2  | 120mVp-p  | 120mVp-p  | 150mVp-p |
|                       | VOLTAGE ADJ. RANGE  | 12 ~ 15V  | 15 ~ 18V  | 24 ~ 29V |
|                       | VOLTAGE TOLERANCE Note.3  | ± 2.0%  | ± 1.0%    | ± 1.0%   |
|                       | LINE REGULATION   | ± 1.0%  | ± 1.0%    | ± 1.0%   |
|                       | LOAD REGULATION   | ± 1.0%  | ± 1.0%    | ± 1.0%   |
|                       | SETUP, RISE TIME  | 2700ms, 80ms/230VAC    2700ms, 80ms/115VAC at full load   |           |          |
| HOLD UP TIME (Typ.)   | 50ms/230VAC    18ms/115VAC at full load   |   |           |          |
| INPUT                 | VOLTAGE RANGE   | 88 ~ 264VAC    124 ~ 370VDC [DC input operation possible by connecting AC/L(+),AC/N(-)]   |           |          |
|                       | FREQUENCY RANGE   | 47 ~ 63Hz   |           |          |
|                       | EFFICIENCY (Typ.)   | 87%   | 87%       | 89%      |
|                       | AC CURRENT (Typ.)   | 3A/115VAC    1.6A/230VAC  |           |          |
|                       | INRUSH CURRENT (Typ.)   | COLD START 30A/115VAC    45A/230VAC   |           |          |
| PROTECTION            | OVERLOAD Note.6   | 105 ~ 135% rated output power<br>Protection type : Constant current limiting, recovers automatically after fault condition is removed |           |          |
|                       | OVER VOLTAGE  | 16 ~ 20V  | 19 ~ 23V  | 30 ~ 35V |
|                       | 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 ~ 90% 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  | UL60950-1, TUV EN60950-1 approved, design refer to EN50178  |           |          |
|                       | WITHSTAND VOLTAGE   | I/P-O/P: 3KVAC  |           |          |
|                       | ISOLATION RESISTANCE  | I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH  |           |          |
|                       | EMC EMISSION  | Compliance to EN61204-3, EN55022 Class B, EN61000-3-2,-3  |           |          |
|                       | EMC IMMUNITY  | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A                       |           |          |
| OTHERS                | MTBF  | 486K hrs min. MIL-HDBK-217F (25°C)  |           |          |
|                       | DIMENSION   | 100*93*56mm (W*H*D)   |           |          |
|                       | PACKING   | 0.35Kg; 36pcs/13.6Kg/0.89CUFT   |           |          |
| 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> <li>5. Harmonic current test @ 90% load.</li> <li>6. Under short circuit or overload &gt;150% conditions, output voltage may shut down for 5 sec. and then go into constant current protection mode.</li> </ol> |   |           |          |

**Mechanical Specification**

Case No.970A Unit:mm

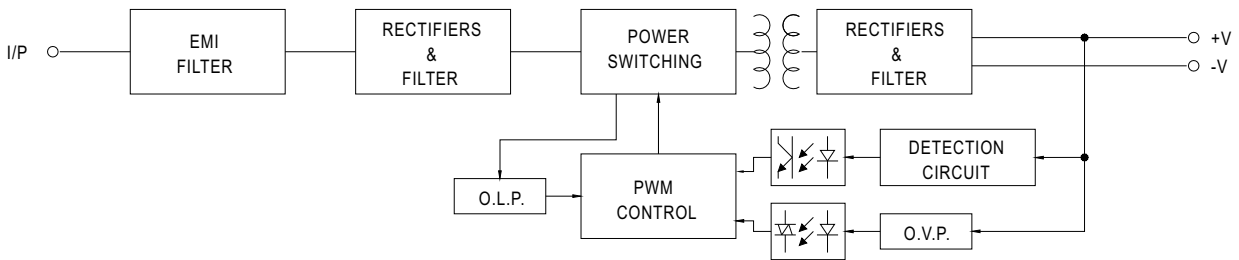
Terminal Pin No. Assignment

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

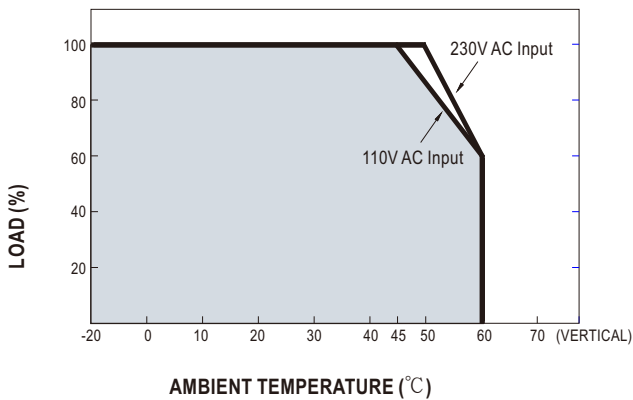


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

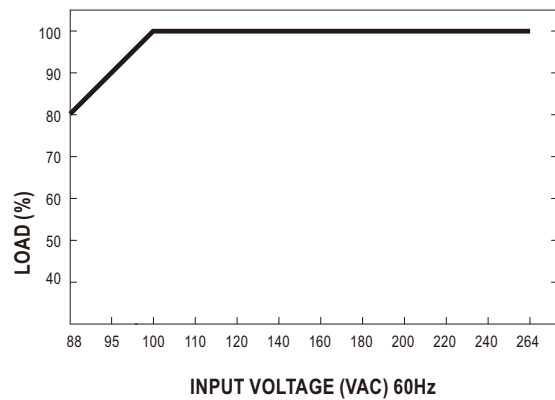
**Block Diagram**



**Derating Curve VS Ambient Temperature**



**Output Derating VS Input Voltage**



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Authorized Distributor

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