



■ Features :

- Suitable for redundant operation of 24V system
- Installed on DIN Rail TS35 / 7.5 or 15
- Relay contact signal output and LED indicator for input failure alarm
- Cooling by free air convection
- 3 years warranty



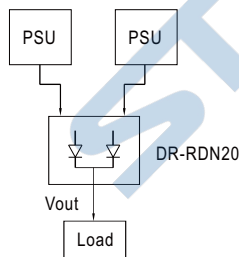
**SPECIFICATION**

| MODEL                 |  | DR-RDN20   |
|-----------------------|--|--|
| OUTPUT                | REVERSE VOLTAGE (max.)   | 30V  |
|                       | OUTPUT CURRENT (max.)  | 20A  |
|                       | VOLTAGE DROP   | 0.6V   |
|                       | LED INDICATORS   | Two green LEDs indicating each input is "OK or fail"   |
| INPUT                 | INPUT VOLTAGE RANGE  | 21 ~ 28V   |
|                       | NUMBER OF INPUTS   | Two  |
|                       | INPUT CURRENT (max.)   | 20A per input  |
| FUNCTION              | INPUT VOLTAGE ALARM  | When input is > 20V(±5%) or < 30V(±5%) relay contacts  |
|                       | RELAY CONTACT RATING (max.)  | 30VDC, 1A  |
| ENVIRONMENT           | WORKING TEMP.  | -40 ~ +70°C  |
|                       | WORKING HUMIDITY   | 20 ~ 90% RH non condensing   |
|                       | STORAGE TEMP., HUMIDITY  | -40 ~ +85°C, 10 ~ 95% RH   |
|                       | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mounting: Compliance to IEC60068-2-6 |
| SAFETY & EMC (Note 2) | SAFETY STANDARDS   | UL508, EAC TP TC 004 approved  |
|                       | WITHSTAND VOLTAGE  | Terminal-Chassis :0.5KVAC, Relay Contacts-Terminal :0.5KVAC  |
|                       | ISOLATION RESISTANCE   | Terminal-Chassis :>100M Ohms / 500VDC / 25°C / 70% RH  |
|                       | EMC EMISSION   | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020   |
| OTHERS                | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11, heavy industry level, criteria A, EAC TP TC 020                        |
|                       | MTBF   | 996.8Khrs min. MIL-HDBK-217F (25°C)  |
|                       | DIMENSION  | 55.5*125.2*100mm (W*H*D)   |
|                       | PACKING  | 0.5Kg; 20pcs/11Kg/1.29CUFT   |
| NOTE                  | <p>1. All parameters NOT specially mentioned are measured at 24VDC input, rated load and 25°C of ambient temperature.</p> <p>2. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> <p>3. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> |  |

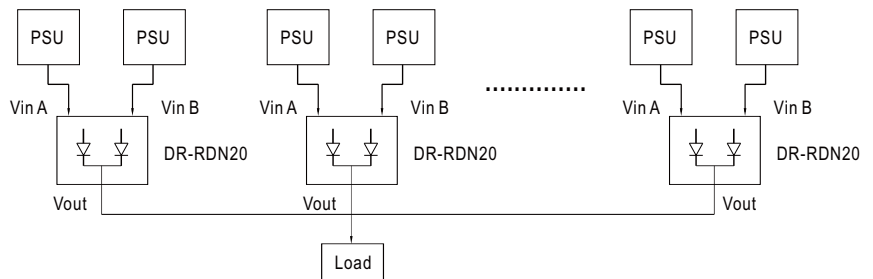
■ Typical Application Notes

1. 1+1 Redundancy

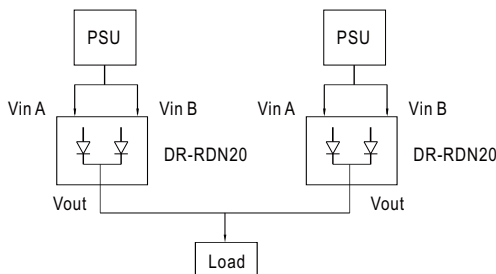
Using 1 more PSU as the redundant unit



2. 1+N Redundancy: Using more PSUs as the redundant units to increase the reliability

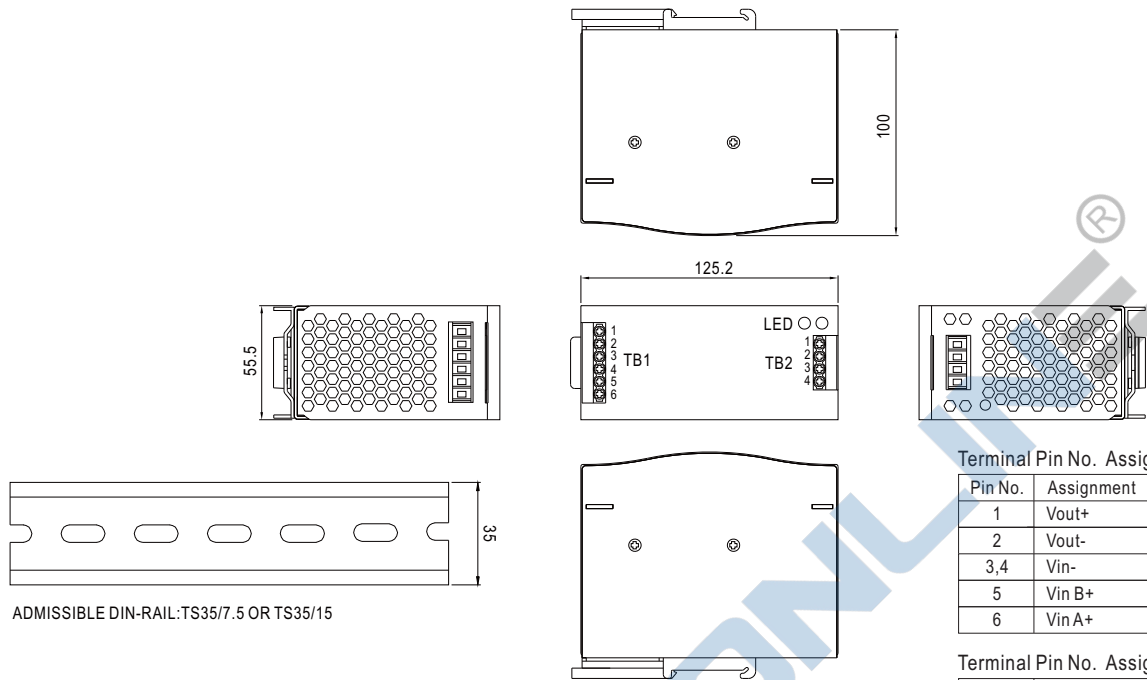


3. Single Use: Connecting only one PSU to one DR-RDN20 to reduce the stress of the diodes and hence increase the reliability



### Mechanical Specification

Case No.923C Unit:mm



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

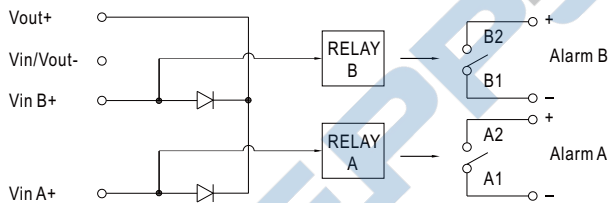
Terminal Pin No. Assignment (TB1)

| Pin No. | Assignment |
|---------|------------|
| 1       | Vout+      |
| 2       | Vout-      |
| 3,4     | Vin-       |
| 5       | Vin B+     |
| 6       | Vin A+     |

Terminal Pin No. Assignment (TB2)

| Pin No. | Assignment |
|---------|------------|
| 1       | Alarm B1   |
| 2       | Alarm B2   |
| 3       | Alarm A1   |
| 4       | Alarm A2   |

### Block Diagram



### Derating Curve

