



■ 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



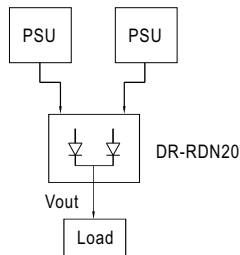
**SPECIFICATION**

<b>MODEL</b>		<b>DR-RDN20</b>
<b>OUTPUT</b>	<b>REVERSE VOLTAGE (max.)</b>	30V
	<b>OUTPUT CURRENT (max.)</b>	20A
	<b>VOLTAGE DROP</b>	0.6V
	<b>LED INDICATORS</b>	Two green LEDs indicating each input is "OK or fail"
<b>INPUT</b>	<b>INPUT VOLTAGE RANGE</b>	21 ~ 28V
	<b>NUMBER OF INPUTS</b>	Two
	<b>INPUT CURRENT (max.)</b>	20A per input
<b>FUNCTION</b>	<b>INPUT VOLTAGE ALARM</b>	When input is > 20V(±5%) or < 30V(±5%) relay contacts
	<b>RELAY CONTACT RATING (max.)</b>	30VDC, 1A
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-40 ~ +70°C
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non condensing
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +85°C, 10 ~ 95% RH
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mousing: Compliance to IEC60068-2-6
<b>SAFETY &amp; EMC (Note 2)</b>	<b>SAFETY STANDARDS</b>	UL508, EAC TP TC 004 approved
	<b>WITHSTAND VOLTAGE</b>	Terminal-Chassis :0.5KVAC, Relay Contacts-Terminal :0.5KVAC
	<b>ISOLATION RESISTANCE</b>	Terminal-Chassis :>100M Ohms / 500VDC / 25°C / 70% RH
	<b>EMC EMISSION</b>	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020
	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, heavy industry level, criteria A, EAC TP TC 020
<b>OTHERS</b>	<b>MTBF</b>	996.8Khrs min. MIL-HDBK-217F (25°C)
	<b>DIMENSION</b>	55.5*125.2*100mm (W*H*D)
	<b>PACKING</b>	0.5Kg; 20pcs/11Kg/1.29CUFT
<b>NOTE</b>	<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>	

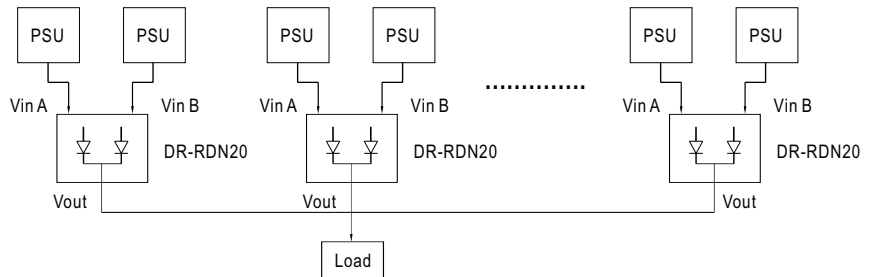
■ **Typical Application Notes**

**1. 1+1 Redundancy**

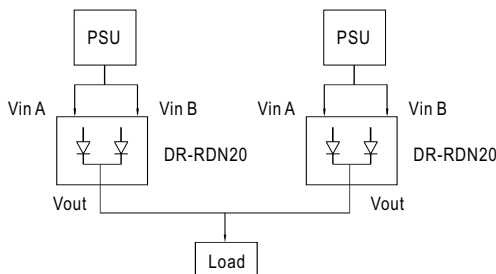
Using 1 more PSU as the redundant unit



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

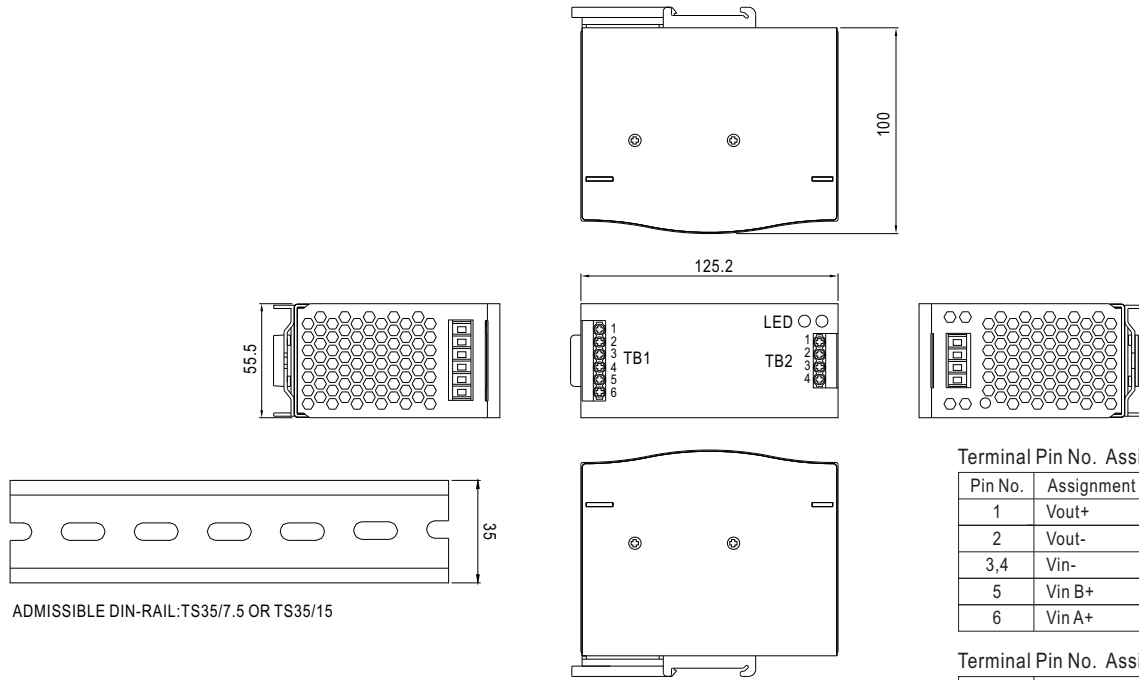


**3. Single Use: Connecting only one PSU to one DR-RDN20 to reduce the stress of the diodes and hence increase the reliability**



## Mechanical Specification

Case No.923C Unit:mm



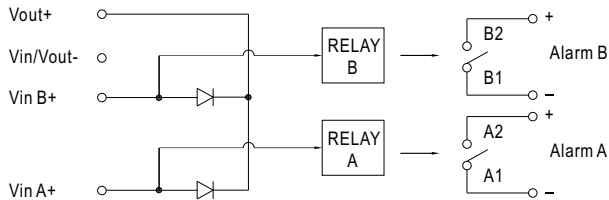
### Terminal Pin No. Assignment (TB1)

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

