



PS-RDN20 Specifications



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 year warranty

DC INPUT/ DC BUS

BATTERY IN / OUTPUT

FUNCTION

ENVIRONMENT

SAFETY & EMC

OTHERS

Cat. No.

PS-RDN20

REVERSE VOLTAGE (max.)
OUTPUT CURRENT (max.)
VOLTAGE DROP
LED INDICATORS

30V
20A
0.5V
Two green LED's indicating each input is OK or fail

INPUT VOLTAGE RANGE
NUMBER OF INPUTS
INPUT CURRENT (max.)

21 ~ 28V
Two
20A per input

INPUT VOLTAGE ALARM
RELAY CONTACT RATING (max.)

When input is $\geq 20V (\pm 5\%)$ or $\leq 30V (\pm 5\%)$ relay contacts
30VDC, 1A

WORKING TEMP.
WORKING HUMIDITY
STORAGE TEMP., HUMIDITY
VIBRATION
MOUNTING

-20 ~ +70°C
20 ~ 90% RH non-condensing
-40 ~ +85°C, 10 ~ 95% RH
10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes
Compliance to IEC60068-2-6

WITHSTAND VOLTAGE
ISOLATION RESISTANCE
EMI CONDUCTION & RADIATION
EMS IMMUNITY

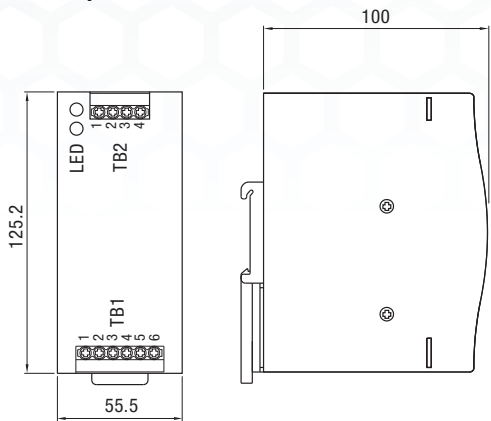
Terminal- Chassis: 0.5KVAC, Relay Contacts- Terminal: 0.5KVAC
Terminal- Chassis: $\geq 100M \text{ Ohms} / 500VDC (25^\circ C; 70\% RH)$
Compliance to EN55022 (CISPR22) Class B
Compliance to EN61000-4-2,3,4,5,6,8; ENV50204; heavy industry level; criteria A,

MTBF
DIMENSION
PACKING

996.8Khrs min. MIL-HDBK-217K (25°C)
55.5x125.2x100mm (WxHxD)
0.5Kg; 20pcs / 11Kg / 1.29CUFT

All parameters NOT specially mentioned are measured at 24V DC input, rated load and 25°C of ambient temperature.

Mechanical Specification



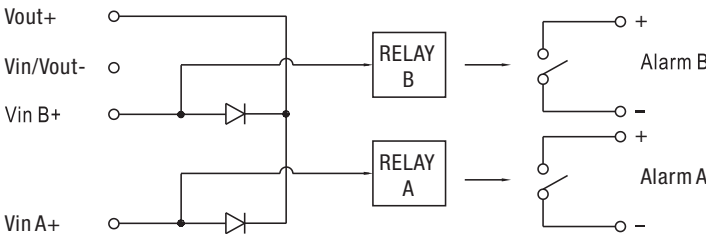
Terminal Pin. No Assignment (TB1)

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

Terminal Pin. No Assignment (TB2)

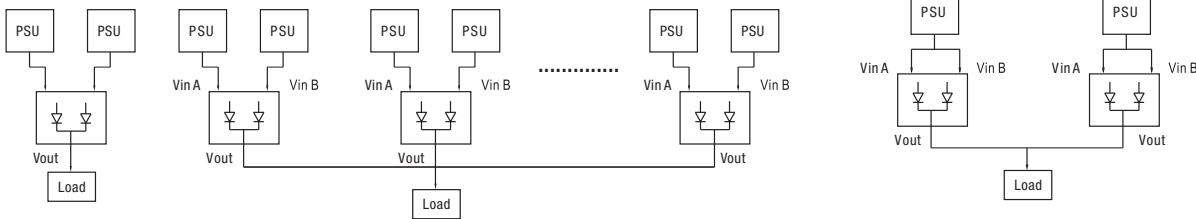
Pin No.	Assignment
1	Alarm B1
2	Alarm B2
3	Alarm A1
4	Alarm A2

Block Diagram

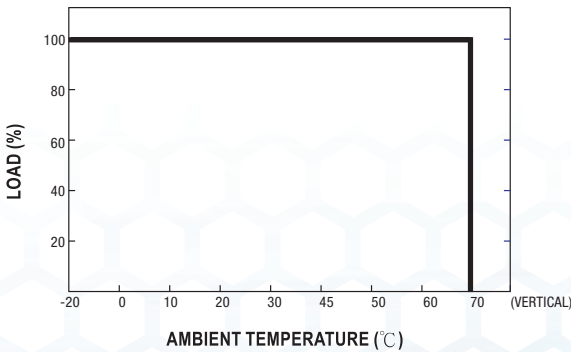


Applications

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 PS-RDN20 to reduce the stress of the diodes and hence increase the reliability



Derating Curve



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

PSC Class 2 Series
Compact Housing

PSA Flex Series
1 Phase

PSB Flex Series
2 & 3 Phase

PS-S Slim Series
Plastic Housing

PS Low Profile Series
Plastic Housing

PS Industrial Series
1, 2 & 3 Phase

PS C & W Series
1 and 2 Phase

CBI Type
DC UPS Systems

CB Type
Battery Chargers

Accessories

Appendix

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Altech:](#)

[PS-RDN20](#)