

# RHINO PSP24-REM240S Redundancy Module

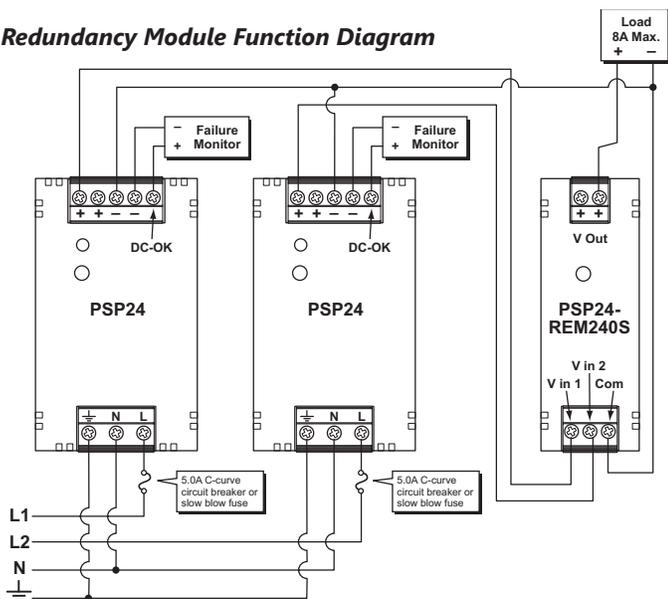
The PSP24-REM240S redundancy module used with two matched power supplies creates redundancy to help prevent costly downtime due to power supply failure. The PSP24-REM240S decouples the outputs of the two connected power supplies so that in case of failure, one power supply cannot overload the other.



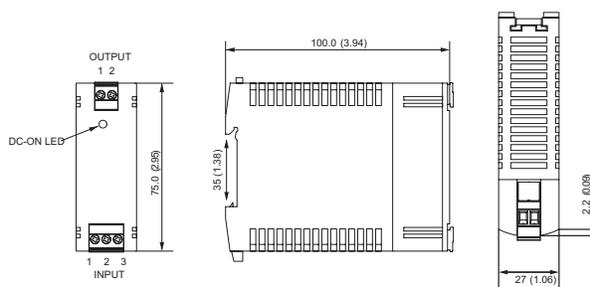
| PSP Redundancy Module |         |                     |                     |                     |                |                     |                                 |
|-----------------------|---------|---------------------|---------------------|---------------------|----------------|---------------------|---------------------------------|
| Part Number           | Price   | Drawing Link        | Input Voltage Range | Max Power per Input | Output Voltage | Output Current Max. | Connection                      |
| <b>PSP24-REM240S</b>  | \$59.00 | <a href="#">PDF</a> | 2 x 5 – 60 VDC      | 144W                | V in - 0.9 VDC | 8 A                 | Detachable screw terminal block |

| PSP24-REM240S General Specifications |  |
|--------------------------------------|--|
| <b>Temperature</b>                   | Operating: -10 to 70°C max [14 to 158°F max],<br>Storage: -25 to 85°C max, [-13 to 185°F max], Cooling: Natural air convection |
| <b>Parallel Operation</b>            | (2) matched power supplies per module. Maximum power shall not exceed 200 watts per input.                                     |
| <b>Electromagnetic Compatibility</b> | In correspondence with connected power supplies  |
| <b>Enclosure Material</b>            | Gray plastic, FR2010-110C [UL94 V-0 rated]   |
| <b>Mounting</b>                      | Built-in snap-on connection for 35mm DIN rail or surface mount adapter included  |
| <b>Indication</b>                    | Green LED for Output ON  |
| <b>Connections</b>                   | Plug-in screw terminals, 0.5 to 0.7Nm [4.5 to 6.2lb-in] recommended tightening torque, wire stripping length 7-8mm             |
| <b>Wire Size range</b>               | 24 to 12 AWG [0.21 to 3.16 mm <sup>2</sup> ]   |
| <b>Agency Approvals</b>              | UL/cUL 508 listed; File No. E197592, CE  |

**Redundancy Module Function Diagram**



**Redundancy Module Connector Positions**



Recommendations for redundant PSP Series power supply applications:

- With no load connected, adjust the output voltage of both power supplies to the same value.
- Use separate input over-current protection for each power supply.
- When possible, connect the input power to each power supply to different phases or circuits.
- When available on the connected power supplies, use the DC-OK output and/or DC-ON LED on each power supply to monitor for failure. (PSP05-020S, PSP12-024S and PSP24-024x do not have DC-OK output).
- Connect all output leads together at a single distribution node using leads having the same length and cross section.

| Input |        | Output |       |
|-------|--------|--------|-------|
| 1     | +Vin1  | 1      | +Vout |
| 2     | +Vin2  | 2      | +Vout |
| 3     | Common |        |       |