

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.



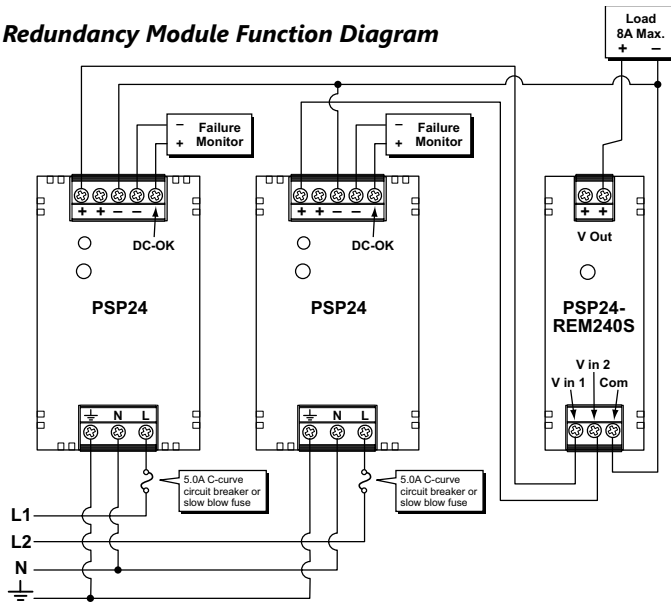
PSP Redundancy Module

| Part Number | Price | Drawing Link | Input Voltage Range | Max Power per Input | Output Voltage | Output Current Max. | Connection |
|----------------------|---------|---------------------|---------------------|---------------------|----------------|---------------------|---------------------------------|
| PSP24-REM240S | \$59.00 | PDF | 2 x 5 – 60 VDC | 144W | V in - 0.9 VDC | 8 A | Detachable screw terminal block |

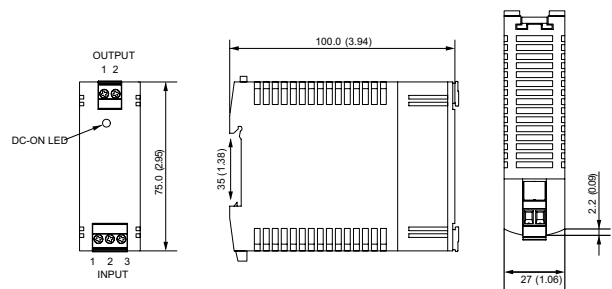
PSP24-REM240S General Specifications

| | |
|--------------------------------------|--|
| Temperature | Operating: -10 to 70°C max [14 to 158°F max], Storage: -25 to 85°C max, [-13 to 185°F max], Cooling: Natural air convection |
| Parallel Operation | (2) matched power supplies per module. Maximum power shall not exceed 200 watts per input. |
| Electromagnetic Compatibility | In correspondence with connected power supplies |
| Enclosure Material | Gray plastic, FR2010-110C [UL94 V-0 rated] |
| Mounting | Built-in snap-on connection for 35mm DIN rail or surface mount adapter included |
| Indication | Green LED for Output ON |
| Connections | Plug-in screw terminals, 0.5 to 0.7Nm [4.5 to 6.2lb-in] recommended tightening torque, wire stripping length 7-8mm |
| Wire Size range | 24 to 12 AWG [0.21 to 3.16 mm ²] |
| Agency Approvals | 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 | | |