

Q-SERIES® Power

Headend Power & Switches



QRPS Rack Mount Power Supply:

Features:

- ▶ QRPS48-CH/R chassis holds one or two pairs of QRPS48-CV converter modules
 - ▶ Chassis backplane contains circuitry to provide either one or two redundant +24 or +28 VDC outputs from two separate -48 VDC inputs
- ▶ QRPS48-CH/4 chassis holds up to four independent output QRPS48-CV converter modules
 - ▶ Chassis backplane contains circuitry to provide up to four +24 or +28 VDC outputs from a single -48 VDC input
 - ▶ Converters in multiple output model operate independently and each will provide up to 2 amperes of current output
- ▶ Rear panel of either chassis provides access to both normally open & normally closed form "C" relay alarm contacts
- ▶ QRPS48-CV converter modules are identical and feature hot-swappable capability
 - ▶ Modules use efficient switching-mode power supply configuration which requires no large heat sinks
- ▶ Hot-swappable power modules
- ▶ Redundant outputs are Diode "OR'ed"
- ▶ Output power monitor by LED color
- ▶ Selection of +24 or +28 volt output jumper on module
- ▶ Allows compatibility with both older & newer ATX amplifiers, as well as any other product requiring less than 2A load
- ▶ UL & NEBS-FR-2063-CD compliant
- ▶ Two converters in redundant pair may use separate -48 V inputs providing redundancy on supply side
- ▶ Either unit can provide full load rating of 2 amperes at +24 volts or +28 volts DC which allows powering from separate -48 VDC sources



QRPS48-24 Specifications

| SPECIFICATIONS | QRPS |
|--|---|
| INPUT VOLTAGE RANGE | -40 to -60 VDC |
| OUTPUT VOLTAGE (Jumper Selectable) | +24 or +28 VDC (+/- 4%) |
| OUTPUT CURRENT RANGE 24/28V OUTPUT | 2.0A |
| OUTPUT RIPPLE (P-P, DC-30 MHz) 24/28V OUTPUT | < 80mV |
| OUTPUT SHORT CIRCUIT PROTECTION 24/28V OUTPUT (Continuous) | 110-150% |
| INPUT OVERVOLTAGE PROTECTION | 62 VDC (+/- 5%) |
| OUTPUT OVERVOLTAGE PROTECTION 28V OUTPUT | 30 VDC (+/- 5%) |
| OPERATING TEMPERATURE | 0°C to +50°C (+32°F to +122°F) |
| HUMIDITY | 20%-55% (without condensation) |
| TYPICAL EFFICIENCY AT FULL LOAD | > 80% |
| LOW VOLTAGE CUT-OFF (Load Dependent) | 34 VDC |
| MINIMUM RESTART VOLTAGE | 37 VDC |
| TYPICAL 48 VDC INPUT CURRENT AT 80% EFFICIENCY FOR FULL LOADING OF 2 AMPS AT 24V OUTPUT PER MODULE | 1.25 Amps |
| PROTECTION | Input Fused @ 3A Slow Blow |
| LOAD SHARING | Outputs to be Diode OR (Redundant Units) |
| VOLTAGES SELECTION (+24 or +28 VDC OUT) | Select by Internal Suitcase Jumper |
| FRONT PANEL LED(s) | Bi-color LED (Green for Normal & Red for a Failure) |
| FORM "C" RELAY OUTPUTS/OUTPUT | Relay Energized when Output is OK |
| REAR PANEL TERMINAL BLOCKS | Terminal Blocks to Accept Insulated or Standard Terminals |
| DIMENSIONS (NEBS Standard) | 1.75"H x 19.0"W x 9.0"D (4.45H x 48.26W x 22.86D cm) |
| WEIGHT | 5.4 lbs (2.45 kg) |
| UL AND NEBS-FR-2063-CD COMPLIANT | Yes |

QRPS Rack Mount Power Supply: _____

Ordering Information

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| Example Part Number: QRPS48 - <u>24</u> / <u>2R</u> 1 2 |
| 1: Output Voltage: 28 VDC 24 VDC |
| 2: Number of Output Converter Modules 1R = Redundant Chassis with 2 Converter Modules (1 Redundant Output) 2R = Redundant Chassis with 4 Converter Modules (2 Redundant Outputs) 01 = Multi-output Chassis with 1 Converter Module (1 Non-redundant Output) 02 = Multi-output Chassis with 2 Converter Modules (2 Non-redundant Outputs) 03 = Multi-output Chassis with 3 Converter Modules (3 Non-redundant Outputs) 04 = Multi-output Chassis with 4 Converter Modules (4 Non-redundant Outputs) |
| NOTES: Redundant Chassis = QRPS48-CH/R Multi-output Chassis = QRPS48-CH/4 Converter Module = QRPS48-CV |

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Specifications subject to change without notice.

