

Q-SERIES® Power

Headend Power & Switches



QRPS Rack Mount Power Supply:

Features:

- ▶ QRPS48-CH/R chassis holds 1 or 2 pairs of QRPS48-CV converter modules
 - ▶ Chassis backplane contains circuitry to provide either 1 or 2 redundant +24 or +28 VDC outputs from 2 separate -48 VDC inputs
- ▶ QRPS48-CH/4 chassis holds up to 4 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 & 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 & 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 colour
- ▶ 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	
INPUT VOLTAGE RANGE	-40 to -60 VDC
OUTPUT VOLTAGE (Jumper Selectable)	+24 or +28 VDC (+/- 4%)
OUTPUT CURRENT RANGE 24/28 VOLT OUTPUT	2.0 A
OUTPUT RIPPLE (pk-pk, DC-30 MHz) 24/28 VOLT OUTPUT	< 80 mv
OUTPUT SHORT CIRCUIT PROTECTION 24/28 VOLT OUTPUT (Continuous)	110 to 150%
INPUT OVER-VOLTAGE PROTECTION	62 VDC (+/- 5%)
OUTPUT OVER-VOLTAGE PROTECTION 28 VOLT OUTPUT	30 VDC (+/- 5%)
OPERATING TEMPERATURE RANGE(S)	0°C to +50°C (+32°F to +122°F)
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 24 V OUTPUT PER MODULE	1.25 Amps
PROTECTION	Input Fused @ 3A SLO-BLO
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)
UL AND NEBS-FR-2063-CD COMPLIANT	Yes

QRPS Rack Mount Power Supply: _____

Ordering Information

Example Part Number: QRPS48 - $\frac{24}{1}$ / $\frac{2R}{2}$
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

Specifications subject to change without notice.

