



Engineering Excellence!

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OPERATING INSTRUCTIONS FOR

Model Q-2 and Q-4

CARD RACK POWER SUPPLY

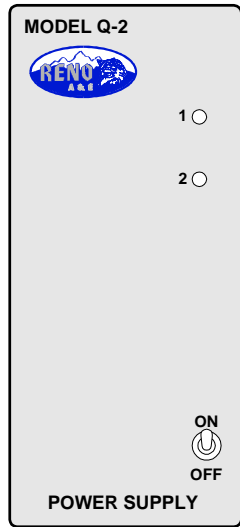
I. General:

Model Q-2 and Q-4 power supplies transform 120 VAC input power into unregulated 24 VDC outputs. Each output is rated for 300 mA of load current and can be paralleled (via the rack wiring) for increased current capability. The Model Q-2 has two outputs and the Model Q-4 has four outputs.

Please verify rack wiring before applying power.

Turn power switch OFF when removing or inserting power supply module.

II. Indicators and Controls:



LED Output Indicators...

Illuminate

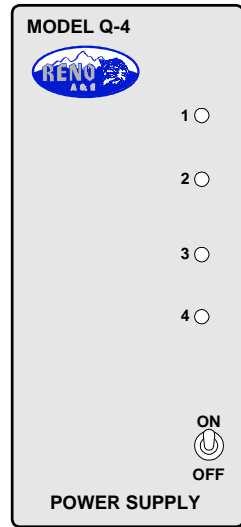
when output voltage is $\geq 20.0 \pm 0.2$ VDC.

Extinguish

when output voltage is $< 20.0 \pm 0.2$ VDC.

Input Power Switch...

switches 120 VAC input line voltage to module.



LED Output Indicators...

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when output voltage is $\geq 20.0 \pm 0.2$ VDC.

Extinguish

when output voltage is $< 20.0 \pm 0.2$ VDC.

Input Power Switch...

switches 120 VAC input line voltage to module.

CAUTION
RISK OF ELECTRICAL SHOCK

ALERT: When input power is applied uninsulated voltages of sufficient magnitude to constitute a risk of electrical shock are present on the printed circuit board. Refer servicing to qualified service personnel.



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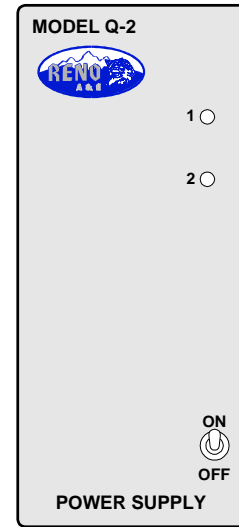
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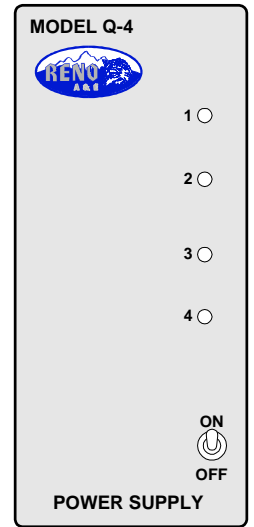
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III. Input / Output Specifications:

Input Voltage: **120 VAC, 50/60 Hz**

NOTE: Units that operate on 240 VAC input voltage are available upon request. Models Q-2 (240) and Model Q-4 (240).

Fuses: Model Q-2: **2 ea. @ 0.375 A**
Model Q-4: **4 ea @ 0.375 A**

NOTE: The fuse holders are located near the center of the PC board.

Output Voltage / Load Current: (*each output*)

Output Voltage	Load Current
31.3 VDC	0 mA
27.2 VDC	100 mA
24.3 VDC	200 mA
21.8 VDC	300 mA

NOTE: Outputs may be paralleled to increase current capability.

IV. Detector Channel Capacity:

Model Q-2: **Up to 8 detector channels**

Model Q-4: **Up to 16 detector channels**

V. Connector / Pin Assignments:

Connector: 2 x 22 pin edge card connector with 0.156 inch (0.396 cm) contact centers. The connector is centered on the 4.50 inch (11.43 cm) side of the PC board.

Pin Assignments:

Pin	Model Q-2	Model Q-4
1 / A	DC Common	DC Common
2 / B	Output #1 (+24 VDC)	Output #1 (+24 VDC)
3 / C	Output #2 (+24 VDC)	Output #2 (+24 VDC)
10 / L	Chassis Ground	Chassis Ground
11 / M	120 VAC Neutral	120 VAC Neutral
12 / N	120 VAC Line	120 VAC Line
17 / U	No Connection	Output #3 (+24 VDC)
18 / V	No Connection	Output #4 (+24 VDC)

NOTE: All pins not listed have no connection.

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