

MODEL Q-12 & Q-24



DC POWER SUPPLIES



Model Q-12



Model Q-24

- Plug-in regulated power supplies rated for 5 Amps continuous load
- Switching design provides high efficiency
- Power factor greater than 0.95
- Power switch controls AC line voltage
- AC input is fuse protected
- DC output is fuse protected
- Input voltage - 85 to 135 VAC, 50/60 Hz
- Model Q-12 12 VDC
- Model Q-24 24 VDC
- Pin connections compatible with Reno A & E Model Q-2 and Q-4 power supplies



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Since 2000

MODEL Q-12 AND Q-24 SPECIFICATIONS

General Description The Models Q-12 and Model Q-24 power supplies are powered from 120 VAC, 50/60 Hz line voltage and provide either 12 VDC or 24 VDC at 5 Amps. The input line voltage and DC output voltage are separately fused. A single regulated output voltage is connected to eight connector pins.

Output Indicator A single LED provides front panel indication when the DC voltage is greater than 10.6 VDC for the Model Q-12 and greater than 21.6 VDC for the Model Q-24.

Power Switch A front panel power switch controls the input line voltage.

Fuse Protection The AC line is protected with a 2 Amp slow blow fuse. The DC output is protected with a 5 Amp fast blow fuse. Fuses are located on the PC board.

Input Line Voltage 85 VAC to 135 VAC.

Input Line Frequency 47 to 63 Hz.

Power Factor Greater than 0.95.

Output Voltage Model Q-12: 12 VDC $\pm 2\%$.
Model Q-24: 24 VDC $\pm 2\%$.

Output Ripple Voltage Less than 80 mV (peak to peak).

Maximum Output Current 5 Amps.

Load Regulation Equal to or less than $\pm 2\%$.

Line Regulation Equal to or less than $\pm 0.1\%$.

Minimum Efficiency Greater than 76%.

Circuit Board The printed circuit board is 0.062 inch thick FR4 material with 2 oz. copper on both sides. All holes are plated through. Circuit boards and components are conformal coated with polyurethane.

Connector 2 x 22 contact edge card connector with 0.156 inch contact centers. Key slots located between pins B/2 & C/3, E/5 & F/6, and M/11 & N/12. (See **Pin Assignments** table.)

Operating Temperature -40° F to $+180^{\circ}$ F.

Weight 0.862 lb.

Size 4.50 inches high x 2.00 inches wide x 6.88 inches deep. Handle adds 1.00 inch to depth.

Pin Assignments

Pin	Function	Pin	Function
1	Output (DC Common)	A	Output (DC Common)
2	Output (+12 VDC / +24 VDC)	B	Output (+12 VDC / +24 VDC)
3	Output (+12 VDC / +24 VDC)	C	Output (+12 VDC / +24 VDC)
4	No Contact Pad	D	No Contact Pad
5	No Contact Pad	E	No Contact Pad
6	No Contact Pad	F	No Contact Pad
7	No Contact Pad	G	No Contact Pad
8	No Contact Pad	H	No Contact Pad
9	No Contact Pad	J	No Contact Pad
10	Chassis Ground	L	Chassis Ground
11	AC Neutral	M	AC Neutral
12	AC Line	N	AC Line
13	No Contact Pad	P	No Contact Pad
14	No Contact Pad	R	No Contact Pad
15	No Contact Pad	S	No Contact Pad
16	No Contact Pad	T	No Contact Pad
17	Output (+12 VDC / +24 VDC)	U	Output (+12 VDC / +24 VDC)
18	Output (+12 VDC / +24 VDC)	V	Output (+12 VDC / +24 VDC)
19	No Contact Pad	W	No Contact Pad
20	No Contact Pad	X	No Contact Pad
21	No Contact Pad	Y	No Contact Pad
22	No Contact Pad	Z	No Contact Pad

