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CHEROKEE INTERNATIONAL, INC.

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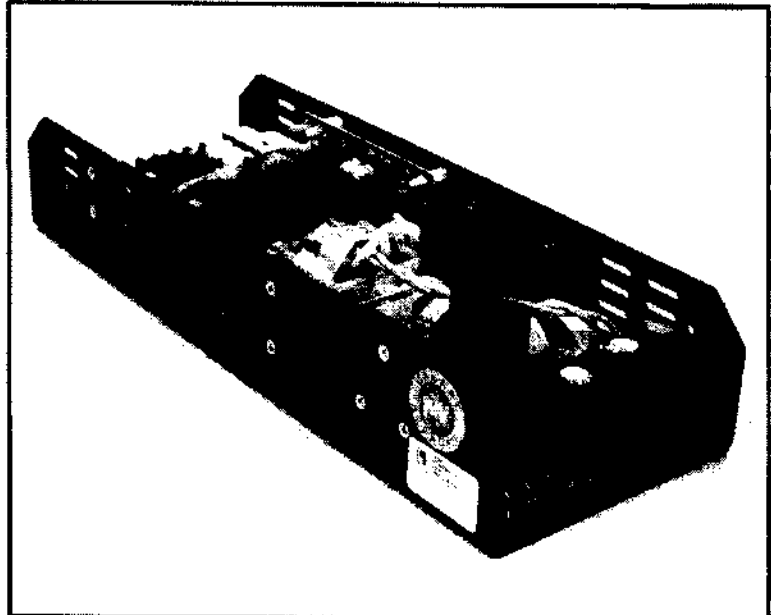
PRODUCT SPECIFICATION

# QX9 Series

Multiple Output Switching  
Power Supplies

## Features

- UL Recognized to UL 1012 and 478 ‡
- CSA Certified to C 22.2 No. 220 - M1986 and EB1402 ‡
- TUV Licensed to IEC 380 and VDE 0806 Class 1 SELV ‡
- Fully compliant with FCC and VDE (Level A) standards for EMI
- 90-132/180-264 VAC, 47-63 Hz
- Accommodates high-peak disk/tape drive requirements
- All outputs fully regulated
- Remote/internal sensing for Output 1
- 0° - 50° C operating ambient
- AC input safety provisions:
  - input voltage transient protected
  - input surge current limited
  - brown out protected
  - jumper relocation for VAC range selection
- DC output safety provisions:
  - complete overload protection
  - overvoltage protected
  - reverse voltage protected
  - low noise outputs



**250/325 Watts Up to 3 Outputs**

## Available Outputs

Standard Output Voltage Combination	Output 1			Output 2			Output 3		
	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps
A	5	40	45	12	5	—	12	10	15
B	5	30	45	12	5	—	24	8	12
C	5	40	45	5	5*	—	12	10	15
D	5	30	45	5	5*	—	24	8	12
E	5	30	45	24	5	—	12	10	15
F	5	20	45	24	5	—	24	8	12
G	5	25	30	12	7*	12	12	10	15
H	5	15	20	12	7*	12	24	8	16

\*2% Load Regulation

- Available options include:
  - remote on/off control
  - thermal shutdown
  - EMI/safety cover

Total (sum) of rated DC output power, maximum:  
 Convection cooling only 250 Watts  
 Forced-air cooling (25 CFM) 325 Watts  
 Peak power (10 sec) 400 Watts

- Other output combinations are also available; consult factory
- All outputs nominally have separate (floating) returns. Other return combinations can be provided; consult factory.
- Higher peak power is available for shorter duration; consult factory.

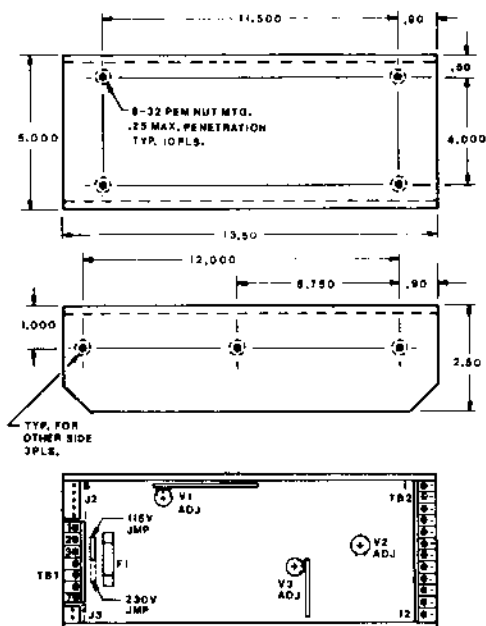
‡Most models; consult factory



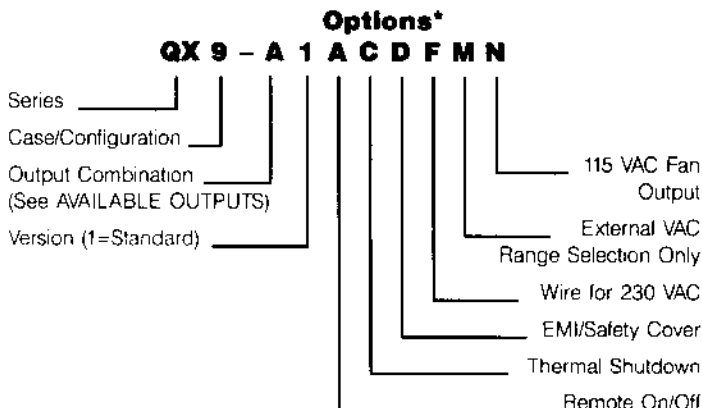
2841 Dow Ave., Tustin, CA 92680-7211 • (714) 544-6665 • FAX (714) 838-4742 • TWX (714) 510-101-0493

# QX9 Series

## Outline/Mounting/Interface



## Ordering Information



\*List all options selected

All Power Supplies are warranted to be free of defects in materials and workmanship for a period of one year.

### Input Terminal Block (TB1)

- 1 AC Input
- 2 Safety Gnd
- 3 ACC Input
- 4 >Jmp for 115V
- 5 >Jmp for 230V
- 6 Not Used
- 7 Not Used

### Output Terminal Block (TB2)

- |                |                 |
|----------------|-----------------|
| 1 Output 1 (+) | 7 Output 1 (-)  |
| 2 Output 1 (+) | 8 Output 1 (-)  |
| 3 Output 1 (+) | 9 Output 2 (-)  |
| 4 Output 1 (+) | 10 Output 2 (+) |
| 5 Output 1 (-) | 11 Output 3 (+) |
| 6 Output 1 (-) | 12 Output 3 (-) |

### Control Connector (J2)

- 1 Remote On/Off
- 2 Control Rtn
- 3 Remote Output Sense (+)
- 4 Remote Output Sense (-)
- 5 Not Used
- Mate with 5 terminal AMP MTA-100 or equal

### Fan Connector (J3)

- 1 115 VAC Output
- 2 115 VAC Rtn
- Mate with 3 terminal AMP MTA-156 or equal, with center pin pulled

## Specifications

<b>AC Input</b>	Nominal: 115/230 VAC, 47-63Hz Range: 90-132/180-264 VAC; remotely selectable or jumper plug selectable (Option M)
<b>DC Outputs</b>	Nominal: See AVAILABLE OUTPUTS table Range: $\pm 5\%$ adjustments, all outputs
<b>Regulation</b>	Line: $\pm 0.25\%$ , all outputs, full AC Input range Load: $\pm 0.25\%$ for Output 1, $\pm 1\%$ for all other outputs; for $\geq 10\%$ loading of Output 1 and zero to full loading of other Outputs. Minimum 25% load required when Output 1 is $\geq 25A$ .
<b>Ripple/Noise</b>	Sum: 1% Pk-Pk, all outputs
<b>Overshoot &amp; Undershoot</b>	Deviation: 2% for 25% load change at 5A/usec Response: 200 usec to 1% deviation, all outputs, turn-on or turn-off
<b>Temperature Coefficient</b>	$\pm 0.02\%$ / $^{\circ}C$ , all outputs
<b>Temperature Range</b>	Operation: $0^{\circ}$ to $50^{\circ}C$ at rated output power; derate linearly to 50% power at $70^{\circ}C$ Storage: $-55^{\circ}C$ to $85^{\circ}C$
<b>Efficiency</b>	75% typical
<b>Overload Protection</b>	Total Output Power: limited by limiting primary current level Output 1: current limited by shutting down primary drive Outputs 2 and 3: current limited by post regulator characteristics
<b>Overvoltage Protection</b>	Output 1: output level $> 6.25V \pm 5\%$ causes shutdown (AC input cycle for restart) Outputs 2 and 3: post regulators have pre-regulated inputs.

<b>Reverse Voltage Protection</b>	100% of rated current outputs
<b>Hold-up Time</b>	20 ms after loss of nominal AC Input, for specified load regulation
<b>In-rush Surge</b>	50A Pk, cold start
<b>Fusing (F-1)</b>	8A/4A, 3AG for 115/230 VAC
<b>Remote Sense</b>	Output 1
<b>Remote On/Off*</b>	Turn on: open circuit or TTL "hi" Turn off: short to Output 1 return, or TTL "lo"
<b>Thermal Shutdown*</b>	Heat-sink-mounted thermal switch acts equivalently to Remote On/Off
<b>Fan Drive*</b>	115 VAC fan output (11W)
<b>Shock/Vibration</b>	Per MIL-STD-810C Vibration: Method 514.2 Procedures X, X1 Shock: Method 516.2, Procedures I, III Shock (Transit): Method 516.2, Procedure II
<b>Weight</b>	4 lbs., 13 oz.

Specifications are subject to change without notice.

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