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CHEROKEE INTERNATIONAL, INC.

A SUBSIDIARY OF CORE INDUSTRIES

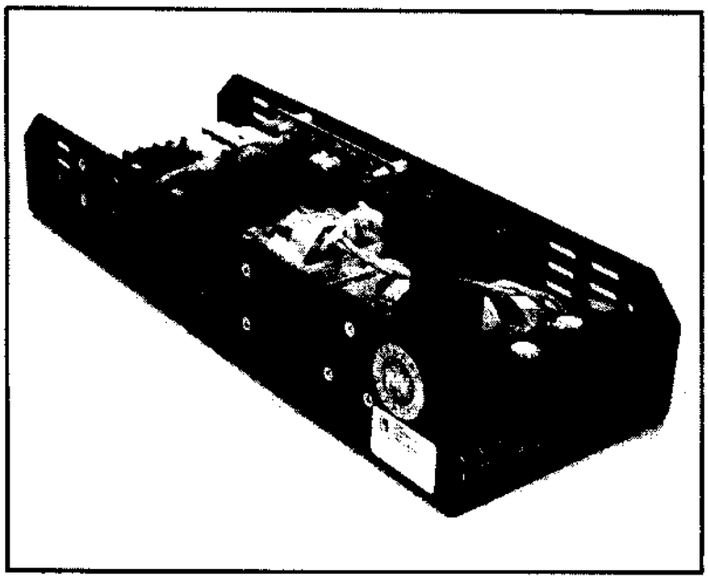
PRODUCT SPECIFICATION

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 Volts	Output 1 Rated Amps	Output 1 Peak Amps	Output 2 Volts	Output 2 Rated Amps	Output 2 Peak Amps	Output 3 Volts	Output 3 Rated Amps	Output 3 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.

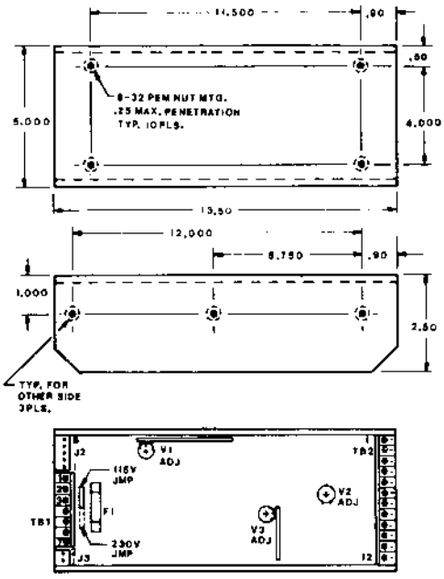
‡Most models; consult factory

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QX9 Series

Outline/Mounting/Interface



Ordering Information

Options*

QX 9 – A 1 A C D F M N

- Series
- Case/Configuration
- Output Combination (See AVAILABLE OUTPUTS)
- Version (1=Standard)
- Remote On/Off
- Thermal Shutdown
- EMI/Safety Cover
- Wire for 230 VAC
- External VAC Range Selection Only
- 115 VAC Fan Output

*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
5 >Jmp for 115V
6 >Jmp for 230V
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

AC Input	Nominal: 115/230 VAC, 47-63Hz Range: 90-132/180-264 VAC; remotely selectable or jumper plug selectable (Option M)
DC Outputs	Nominal: See AVAILABLE OUTPUTS table Range: ±5% adjustments, all outputs
Regulation	Line: ±0.25%, all outputs, full AC Input range Load: ±0.25% for Output 1, ±1% for all other outputs; for ≥10% loading of Output 1 and zero to full loading of other Outputs. Minimum 25% load required when Output 1 is ≥25A.
Ripple/Noise	Sum: 1% Pk-Pk, all outputs
Overshoot & Undershoot	Deviation: 2% for 25% load change at 5A/usec Response: 200 usec to 1% deviation, all outputs, turn-on or turn-off
Temperature Coefficient	±0.02% / °C, all outputs
Temperature Range	Operation: 0° to 50°C at rated output power; derate linearly to 50% power at 70°C Storage: –55°C to 85°C
Efficiency	75% typical
Overload Protection	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
Overvoltage Protection	Output 1: output level >6.25V ±5% causes shutdown (AC input cycle for restart) Outputs 2 and 3: post regulators have pre-regulated inputs.
Reverse Voltage Protection	100% of rated current outputs
Hold-up Time	20 ms after loss of nominal AC Input, for specified load regulation
In-rush Surge	50A Pk, cold start
Fusing (F-1)	8A/4A, 3AG for 115/230 VAC
Remote Sense	Output 1
Remote On/Off*	Turn on: open circuit or TTL "hi" Turn off: short to Output 1 return, or TTL "lo"
Thermal Shutdown*	Heat-sink-mounted thermal switch acts equivalently to Remote On/Off
Fan Drive*	115 VAC fan output (11W)
Shock/Vibration	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
Weight	4 lbs., 13 oz.

Specifications are subject to change without notice.

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