

CHEROKEE INTERNATIONAL, INC.

A SUBSIDIARY OF CORE INDUSTRIES

PRODUCT SPECIFICATION

QD17 Series *Power Factor Corrected*

Switching Regulated Power Supplies

Benefits

- Power Factor Correction - to 0.98
- Proprietary Cascode Topology inherently provides the most reliable FET switcher available.
- Mag Amp auxiliaries provide well regulated, high current outputs.
- New technology provides highest efficiencies, typically over 70%.
- All outputs can be paralleled..

Features

- UL Recognized to UL 1950
- CSA Certified to C 22.2 No. 234-950
- TUV Licensed to IEC 950, EN60950
- Fully compliant with FCC and VDE (Level A) standards for EMI.
- Compliant with IEC 555-2
- Accommodates high-peak disk drive requirements.
- 0°-70°C operating ambient.
- AC input provisions:
 - Power Factor of 0.98
 - 208 VAC, Single Phase
 - Input surge current limited
 - Brown out protected
 - Meets IEEE 587 for input transients
 - Meets IEC 555-2 for harmonic distortion
- DC output provisions:
 - Complete overload protection
 - Overvoltage protected
 - Reverse voltage protected
 - Low noise outputs
 - Direct paralleling
 - Load Sharing
 - Margining
 - Remote Sense

1500 Watts Up to 4 Outputs *Available Outputs*

Standard Output Voltage Combination	Output 1*			Output 2		Output 3		Output 4	
	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Volts	Rated Amps	Volts	Rated Amps
A	5	200	250	12	20	12	20	24 ¹	10
B	5	200	250	12	20	12	20	12	20
C	5	200	250	12	20	12	20	5	20
D	5	200	250	5	20	12	20	24 ¹	10
E	5	200	250	15	20	15	20	5	20
F	5	300							
G	12	125							
H	24	65							
I	28	55							
J	48	31							

Total (sum) of rated DC output power, maximum: 1500 Watts

¹ Minimum load 300 mA for 24 VDC outputs

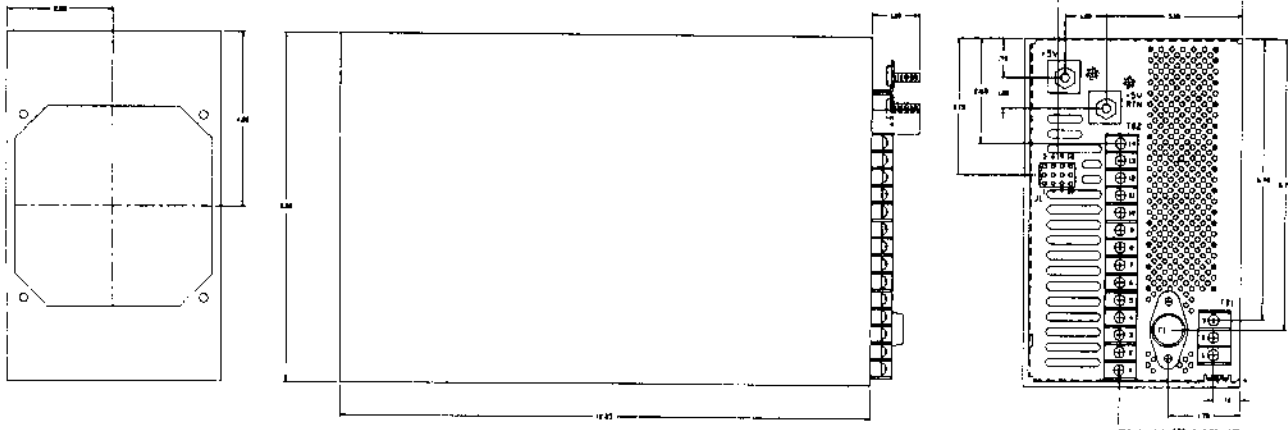
- * All outputs are isolated.
- * Other output combinations are also available; consult factory.
- + Most models; consult factory



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

QD17 Series

Outline/Mounting/Interface



5" x 8" x 12.25"

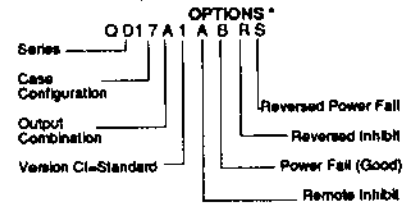
Specifications

AC Input	Nominal: 208 VAC, Single Phase Range: 180 - 264 VAC, 47-63 Hz Power Factor of 0.98
DC Outputs	Nominal: See AVAILABLE OUTPUTS table Range: +/-5% adjustment All outputs are isolated.
Regulation	Line: +/-0.5%, all outputs, full AC Input range Load: +/-0.5% Output 1, +/-1% all other outputs, for Output 1 at 10-100% loading, all other outputs at 0-100% loading
Ripple/Noise	Sum: 1% Pk-Pk, all outputs
Overshoot & Undershoot	Deviation: +/-2% for 25% load change at 5A.ussec 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	70% typical
Overload Protection	All outputs are individually current limited.
Overvoltage Protection	All outputs; Over voltage of 125% (+/- 5%) causes shutdown. (AC input cycle required for restart)

* Options

D... 0 01

Ordering Information



Direct Paralleling	Single wire paralleling insures load sharing when multiple supplies are connected together.
Hold-up Time	20 ms after loss of nominal AC Input, for specified load regulation
In-rush Surge	120A Pk, cold start
Fusing(F-1)	20A, 250VAC
Remote Sense	All Outputs
Remote On/Off*	Turn on: open circuit or TTL "hi" Turn off: short to Output 1 return or TTL "lo"
Power Fail (Good)*	Power applied: Output "lo" until all outputs are in regulation Power lost: After one cycle ride-through (16 msec minimum) output goes "lo" 2 msec minimum before loss of regulation
Thermal Shutdown	Automatic shutdown in event of thermal overload.
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	13 lbs

Specifications are subject to change without notice.

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