

QD7 Series

Switching Regulated Power Supplies

Benefits

- 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.
- Accommodates high-peak disk drive requirements.
- 0°-70°C operating ambient.
- AC input provisions:
 - 208 VAC, Single Phase
 - Input surge current limited
 - Brown out protected
 - Meets IEEE 587 for input transients
- 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.

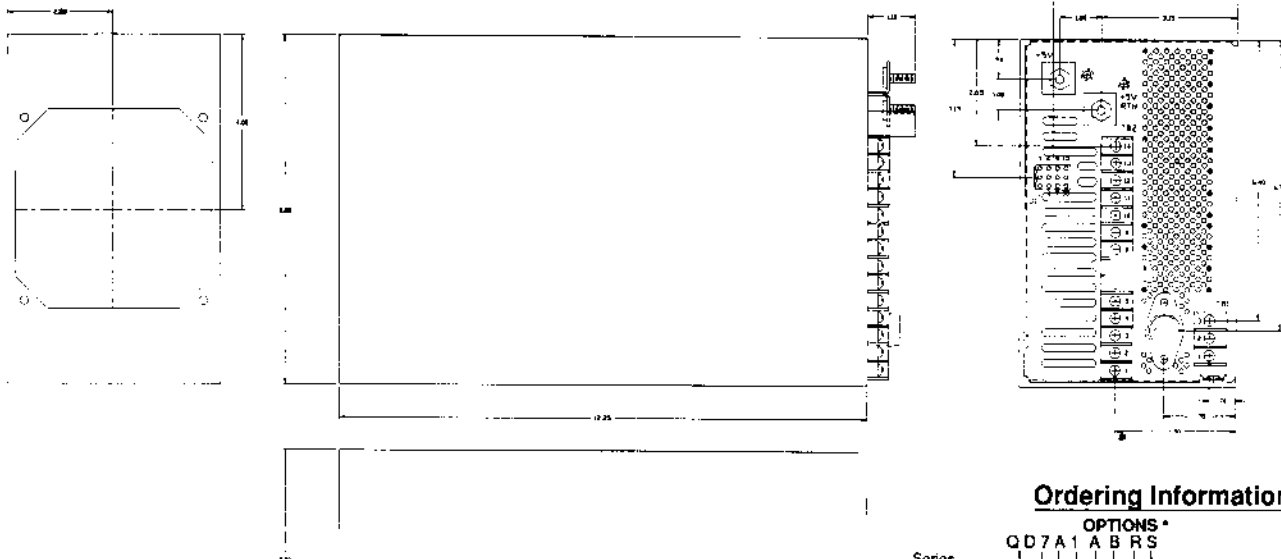
+ Most models; consult factory

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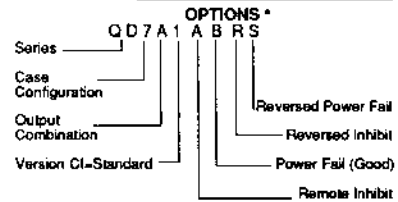


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Outline/Mounting/Interface



Ordering Information



5" x 8" x 12.25"

Specifications

| | |
|--|--|
| <p>AC Input Nominal: 208 VAC, Single Phase Range: 180 - 264 VAC, 47-63 Hz</p> <p>DC Outputs Nominal: See AVAILABL. OUTPUTS table Range: +/-5% adjustment All outputs are isolated.</p> | <p>Direct Paralleling Single wire paralleling insures load sharing when multiple supplies are connected together.</p> <p>Hold-up Time 20 ms after loss of nominal AC Input, for specified load regulation</p> |
| <p>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</p> <p>Ripple/Noise Sum: 1% Pk-Pk, all outputs</p> <p>Overshoot & Undershoot Deviation: +/-2% for 25% load change at 5A.usec Response: 200 usec to 1% deviation, all outputs, turn-on or turn-off</p> <p>Temperature Coefficient +/-0.02%/°C, all outputs</p> <p>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</p> <p>Efficiency 70% typical</p> <p>Overload Protection All outputs are individually current limited.</p> <p>Overvoltage Protection All outputs; Over voltage of 125% (+/- 5%) causes shutdown. (AC input cycle required for restart)</p> | <p>In-rush Surge 120A Pk, cold start</p> <p>Fusing(F-1) 20A, 250VAC</p> <p>Remote Sense All Outputs</p> <p>Remote On/Off* Turn on: open circuit or TTL "hi" Turn off: short to Output 1 return or TTL "lo"</p> <p>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</p> <p>Thermal Shutdown Automatic shutdown in event of thermal overload.</p> <p>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</p> <p>Weight 13 lbs</p> |

* Options

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CHEROKEE INTERNATIONAL, INC.

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