

QD16 Series *Power Factor Corrected*

Switching Regulated Power Supplies

Benefits

- Power Factor Correction - to .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..
- Autoranging (Automatic VAC input range selection) is standard.

Features

- UL Recognized to UL 1950+
- CSA Certified to C22.2 No. 234 (950) and EB 1402C.
- TUV Licensed to EN60950 (IEC 950)
- 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:
 - Autoranging, 90-132/180-264 VAC, 47-63 Hz automatically selected
 - 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
 - Margining for Output 1 is standard

1000 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	150	175	12	20	12	20	24 ¹	10
B	5	150	175	12	20	12	20	12	20
C	5	150	175	12	20	12	20	5	20
D	5	150	175	5	20	12	20	24 ¹	10
E	5	150	175	15	20	15	20	5	20
F	5	200							
G	12	85							
H	24	42							
I	28	36							

Total (sum) of rated DC output power, maximum: 1000 Watts²

(1) Minimum load 300 mA for 24 VDC outputs

* All outputs are isolated.

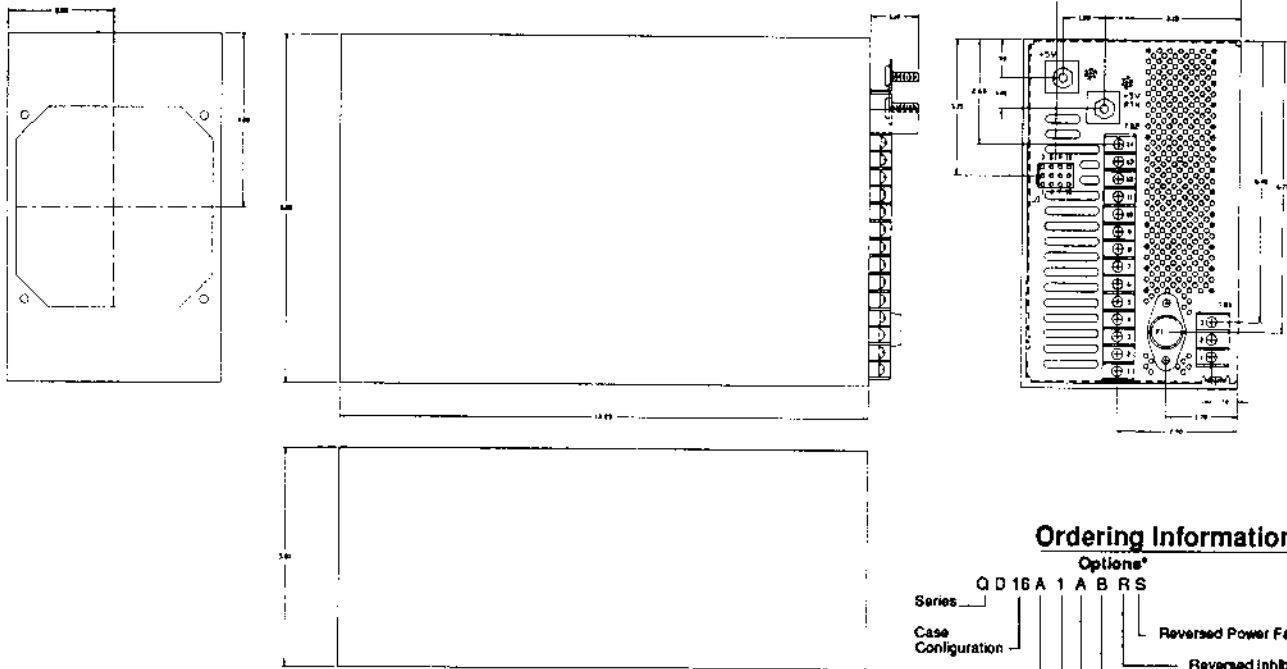
* Other output combinations are also available; consult factory.

+ Most models; consult factory



QD16 Series

Outline/Mounting/Interface



5" x 8" x 12.25"

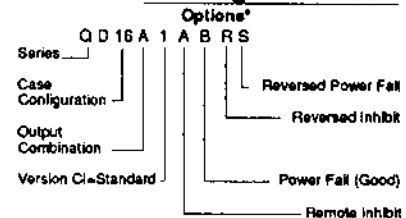
Specifications

AC Input	Nominal: 115/230 VAC, 47-63 Hz Range: 90-132/180-264 VAC; automatically selected	Direct Paralleling	Single wire paralleling insures load sharing when multiple supplies are connected together.
DC Outputs	Nominal: See AVAILABLE OUTPUTS table Range: +/-5% adjustment All outputs are isolated.	Hold-up Time	20 ms after loss of nominal AC Input, for specified load regulation
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	In-rush Surge	100A Pk, cold start
Ripple/Noise	Sum: 1% Pk-Pk, all outputs	Fusing(F-1)	For 115/230 VAC 20A, 250 VAC; 3AG (panel mounted)
Overshoot & Undershoot	Deviation: +/-2% for 25% load change at 5A, usec Response: 200 usec to 1% deviation, all outputs, turn-on or turn-off	Remote Sense	All outputs
Temperature Coefficient	+/-0.02%/°C, all outputs	Remote On/Off*	Turn on: open circuit or TTL "hi" Turn off: short to Output 1 return or TTL "lo"
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	Power Fall(Good)*	Power applied: Output "o" 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 at nominal line
Efficiency	70% typical	Thermal Shutdown	Automatic shutdown in event of thermal overload. Automatic recovery when conditions improved.
Overload Protection	All outputs are individually current limited.	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
Overvoltage Protection	Output 1: output level 6.2V +/-5% causes shutdown (AC input cycle required for restart)	Weight	13 lbs

* Options

Rev. 8-91

Ordering Information



Specifications are subject to change without notice.

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