



TRI-MAG, Inc.
your POWER Specialists

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DZ200 SERIES

200 Watts with PFC

UNIVERSAL INPUT



DESCRIPTION

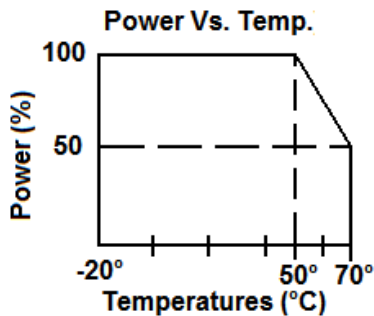
DZ200 series are 200W with active PFC in U shape chassis power supply. With soft-switching topology, low-profile height fits 1U constraints, high efficiency and high density in 4.0 W/in².

FEATURES

- EMI FCC Class B
- Power Factor Correction
- No Minimum Load Required (Single Outputs Only)
- Single and Multiple Output
- Universal input 90VAC to 264VAC

APPLICATIONS

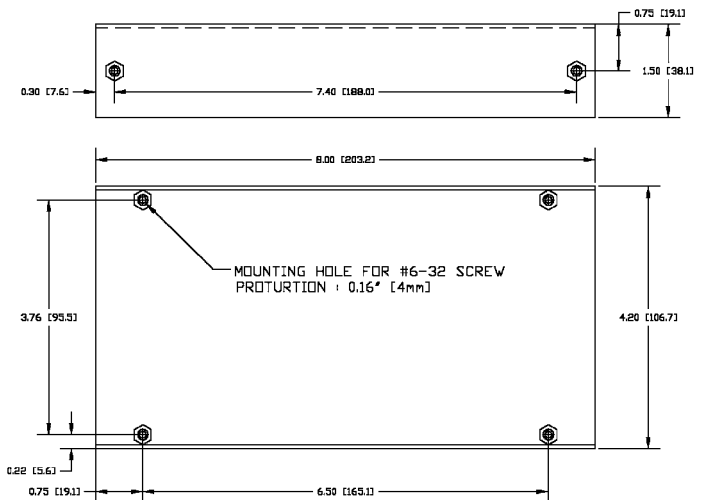
- Computer Peripherals
- Telecommunications
- Tape Drives
- Test Instrumentation Product
- Data Acquisition



GENERAL SPECIFICATIONS

Input Voltage.....	90VAC to 264VAC
Input Frequency.....	47Hz to 63Hz
Power Factor.....	>0.95
Inrush Current (cold).....	Less than 20A at 115VAC or 40A at 230VAC cold start, 25°C
Operating Temperature.....	0 to 70°C
Storage Temperature.....	-20°C to 85°C
Cooling.....	Free Air Convection for 200W 18CFM for 250 W
Efficiency.....	82-87% Typical
Holdup Time.....	>20ms
Oversvoltage Type.....	Latch off
Overload Protection.....	Auto-recovery
Short Circuit Protection.....	Auto-recovery
Safety:	
Designed in full compliance with.....	UL 60950-1 CSA 22.2 #234, TUV EN60950-1
EMI.....	EN55022 "B"
Harmonics.....	EN61000-3-2 class D
EMS.....	EN61000-4-2,-3,-4,-5,-6,-11

MECHANICAL SPECIFICATIONS



- Note:
1. Dimension shown in inch [mm] as above.
 2. Size:
4.2" X 8.0" X 1.5"
[106.7mm X 203.2mm X 38.1mm]
 3. Connectors:
AC Input: Terminal Blocks
DC Output: Terminal Blocks
Fan: Molex 5045-02A or equivalent
Signals: 2 X 5 (10 pin) 0.1" pitch



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OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ200-4EU DZ200-4EC	200	+5V	2	20	25	1%	50 mV	± 1%	± 1%
		+12VA	0	6	8	5%	120 mV	± 1%	± 5%
		+12VB	0	2	3	5%	120 mV	± 1%	± 5%
DZ200-19EU DZ200-19EC	200	+3.3V	2	16	30	3%	50 mV	± 1%	± 1%
		+5V	0	12	20	5%	50 mV	± 1%	± 5%
		+12V	0	5	10	5%	120 mV	± 1%	± 5%
DZ200-6EU DZ200-6EC	200	+5V	0	36	45	1%	50 mV	± 1%	±1%
DZ200-7EU DZ200-7EC		200	+12V	0	17	21	2%	120 mV	±1%
DZ200-8EU DZ200-8EC	200		+15V	0	13.5	17	5%	150 mV	±1%
DZ200-9EU DZ200-9EC		200	+24V	0	8.5	10.5	1%	200 mV	±1%
DZ200-14EU DZ200-14EC	200		+48V	0	4.3	5.2	5%	200 mV	±1%
DZ200-3EU DZ200-3EC		200	+18V	0	11.3	14	5%	150 mV	±1%

Note: Contact factory for Safety Agency Approved status.

- Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
- At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47 µF capacitor at rated load and nominal line.
- Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to 95% output voltage at rated load and nominal line.
- Efficiency is measured at rated load.
- +12VB is floating.

NOTE: Enclosed (EC) is available

DZ200 SERIES 200 WATT— PIN ASSIGNMENT

Pin Model	1	2	3	4	5	6	7	8	9
DZ200-4EU	+5V	+5V	COM	COM	COM	+12V	COM(+12)	+12VB	
DZ200-19EU	+12V	+5V	+5V	COM	COM	COM	COM	+3.3V	+3.3V
DZ200-6EU	+5V	+5V	COM	COM	COM	COM	+5V	+5V	
DZ200-7EU	+12V	+12V	+12V	COM	COM	COM			
DZ200-8EU	+15V	+15V	+15V	COM	COM	COM			
DZ200-9EU	+24V	+24V	+24V	COM	COM	COM			
DZ200-14EU	+48V	+48V	+48V	COM	COM	COM			
DZ200-3EU	+18V	+18V	+18V	COM	COM	COM			