



TRI-MAG, Inc.
your POWER Specialists

1601 N. CLANCY CT. • VISALIA, CA 93291
 (559) 651-2222 • FAX (559) 651-0188
<http://www.tri-mag.com>
sales@tri-mag.com

DZ-B SERIES

40 - 300 Watts For Medical & Industrial Applications



GENERAL SPECIFICATIONS

Input Voltage..... 90VAC to 264VAC
 Input Frequency..... 47Hz to 63Hz
 Power Factor..... .93% Power > 75 Watts
 Inrush Current (cold)..... Less than 30A at
 115VAC, 25°C
 Operating Temperature..... 0 to 70°C
 De-rated 2.5%/°C > 50°C
 Storage Temperature..... -20°C to 85°C
 Cooling..... Free Air Convection
 Efficiency..... 85% Typical
 Holdup Time..... >20ms
 Overvoltage Type..... Latch off
 Overload Protection..... Auto-recovery
 Short Circuit Protection..... Auto-recovery
 Earth Leakage..... 300µ Max @ 240VAC
 Designed in full compliance with UL 60950, UL2601-1
 CSA 22.2 #234, #601-1
 EN60950, EN60601-1
 EMI..... FCC Docket 20780 "B", EN55022 "B"
 Harmonics..... EN61000-3-2 class D
 EMS..... EN61000-4-2,-3,-4,-5,-6,-11

DESCRIPTION

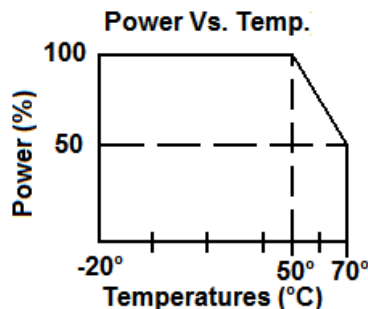
DZ-B series is a universal input single output power supply. The series is a 40W to 300W Power supply enclosed in a metal chassis with a standard 1U height. The efficiency can reach up to 85% depending on model.

FEATURES

- EMI FCC Class B
- Built in LED Power On Indicator
- No Minimum Load Required
- Single Output
- Universal input 90VAC to 264VAC
- Wide Output Adjustable Range (22VDC to 30VDC)

APPLICATIONS

- Computer Peripherals
- Telecommunications
- Machinery
- Test Instrumentation Product
- Data Acquisition
- Medical & Dental



MECHANICAL SPECIFICATIONS

Note:

1. A detailed mechanical specification is on the next page.
2. Size: DZ-B04 Series 3.35" X 3.94" X 1.38"
 [85.0mm X 100.0mm X 35.0mm]
 DZ-B06 Series 3.35" X 5.12" X 1.38"
 [85.0mm X 130.0mm X 35.0mm]
 DZ-B10 Series 3.35" X 6.3" X 1.38"
 [85.0mm X 160.0mm X 35.0mm]
 DZ-B15 Series 3.94" X 7.48" X 1.61"
 [100.0mm X 190.0mm X 41.0mm]
 DZ-B20 Series 3.94" X 8.27" X 1.65"
 [100.0mm X 210.0mm X 42.0mm]
 DZ-B30 Series 3.94" X 9.06" X 1.65"
 [100.0mm X 230.0mm X 42.0mm]
3. Connectors:
 AC Input: Terminal Blocks
 DC Output: Terminal Blocks
4. Din Rail Mounting Fixture:
 Available for each series.



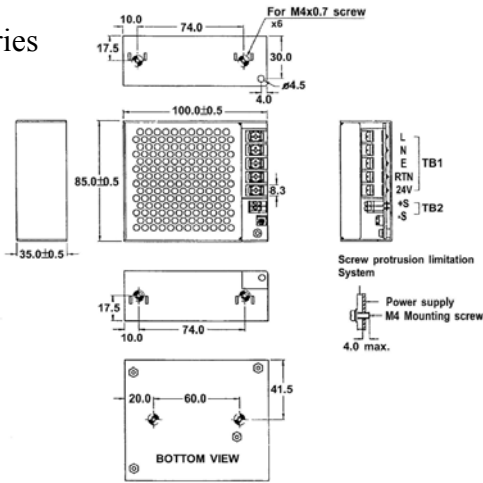


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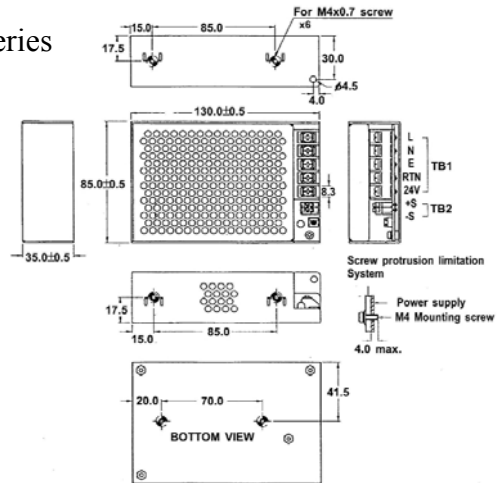
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MECHANICAL SPECIFICATIONS FOR THE DZ-B SERIES

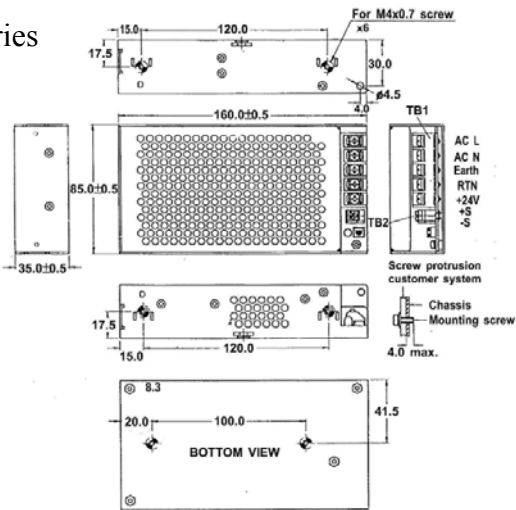
DZ-B04 Series



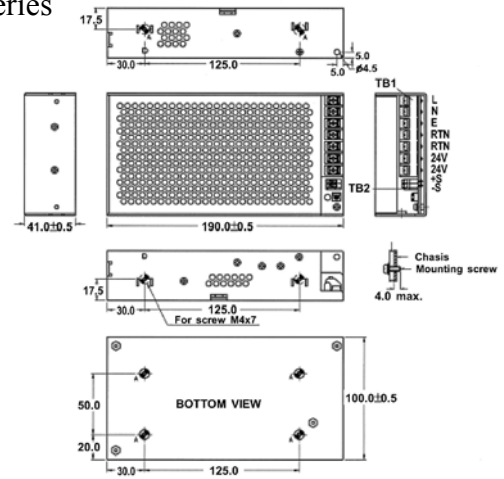
DZ-B06 Series



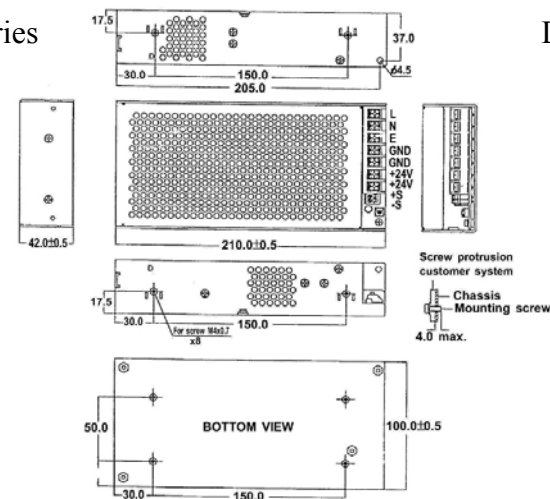
DZ-B10 Series



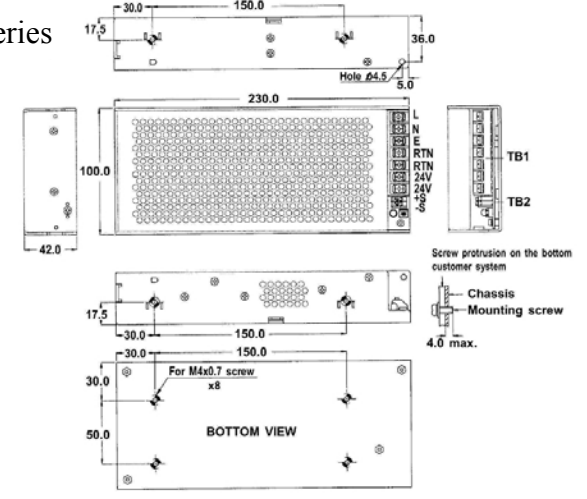
DZ-B15 Series



DZ-B20 Series



DZ-B30 Series





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OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ-B045	40	+18V	0	2.2	4.2	2%	50 mV	± 1%	± 1%
DZ-B047	40	+12V	0	3.3	6	2%	50 mV	± 1%	± 1%
DZ-B048	40	+15V	0	2.7	5	2%	50 mV	± 1%	± 1%
DZ-B049	40	+24V	0	1.7	3	2%	50 mV	± 1%	± 1%
DZ-B065	60	+18V	0	3.3	6.7	2%	50 mV	± 1%	± 1%
DZ-B067	60	+12V	0	5	8.5	2%	50 mV	± 1%	± 1%
DZ-B068	60	+15V	0	4	6.5	2%	50 mV	± 1%	± 1%
DZ-B069	60	+24V	0	2.5	5	2%	50 mV	± 1%	± 1%
DZ-B105	100	+18V	0	5.6	8	2%	50 mV	± 1%	± 1%
DZ-B107	100	+12V	0	8.3	12	2%	50 mV	± 1%	± 1%
DZ-B108	100	+15V	0	6.7	10	2%	50 mV	± 1%	± 1%
DZ-B109	100	+24V	0	4.2	6	2%	50 mV	± 1%	± 1%
DZ-B155	150	+18V	0	8.3	10.7	2%	50 mV	± 1%	± 1%
DZ-B157	150	+12V	0	12.5	16	2%	50 mV	± 1%	± 1%
DZ-B158	150	+15V	0	10	13	2%	50 mV	± 1%	± 1%
DZ-B159	150	+24V	0	6.5	8	2%	50 mV	± 1%	± 1%
DZ-B205	200	+18V	0	11	16.5	2%	50 mV	± 1%	± 1%
DZ-B207	200	+12V	0	16.7	25	2%	50 mV	± 1%	± 1%
DZ-B208	200	+15V	0	13.3	20	2%	50 mV	± 1%	± 1%
DZ-B209	200	+24V	0	8.3	10	2%	50 mV	± 1%	± 1%
DZ-B305	300	+18V	0	16.7	26.7	2%	100 mV	± 1%	± 1%
DZ-B307	300	+12V	0	23	37.44	2%	100 mV	± 1%	± 1%
DZ-B308	300	+15V	0	18.5	32	2%	100 mV	± 1%	± 1%
DZ-B309	300	+24V	0	11.66	15	2%	50 mV	± 1%	± 1%

Note: Contact factory for Safety Agency Approved status.

1. Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
5. The ripple and noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47 µF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down regulation limit.
7. Efficiency is measured at rated and nominal load.