

# 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

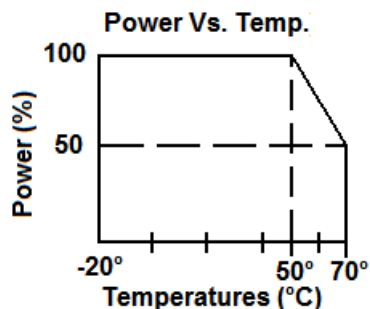
DZ-B series is a universal input single output power supply. The series is a 40W to 300W Power supply enclosed in a metal chassis with a standard 1U height. The efficiency can reach up to 85% depending on model.

### 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

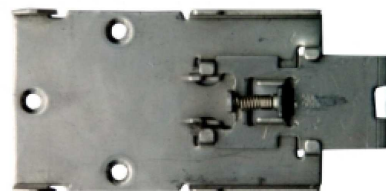
- Computer Peripherals
- Telecommunications
- Machinery
- Test Instrumentation Product
- Data Acquisition
- Medical & Dental



### MECHANICAL SPECIFICATIONS

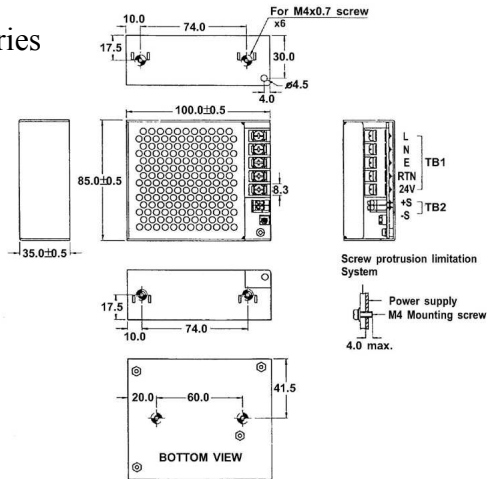
Note:

- A detailed mechanical specification is on the next page.
- 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]
- Connectors:  
 AC Input: Terminal Blocks  
 DC Output: Terminal Blocks
- Din Rail Mounting Fixture:  
 Available for each series.

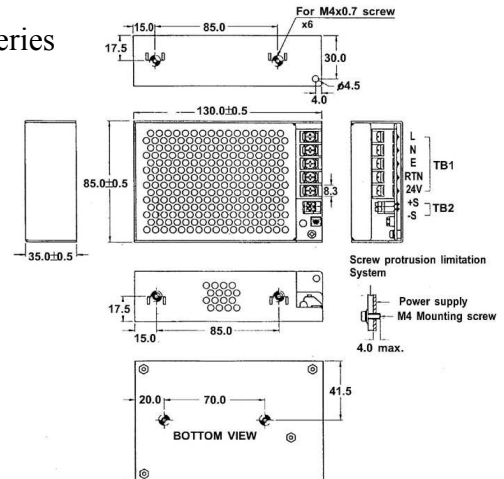


**MECHANICAL SPECIFICATIONS FOR THE DZ-B SERIES**

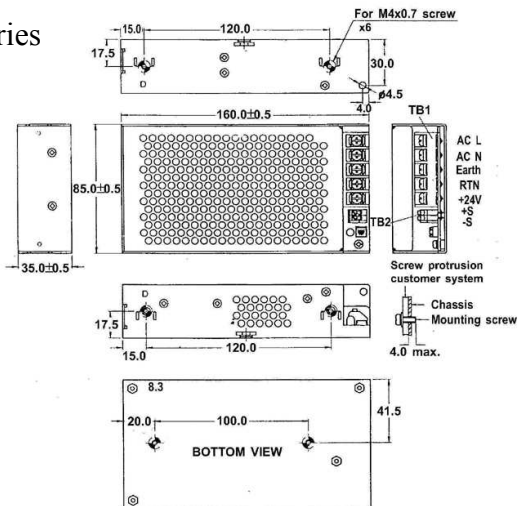
DZ-B04 Series



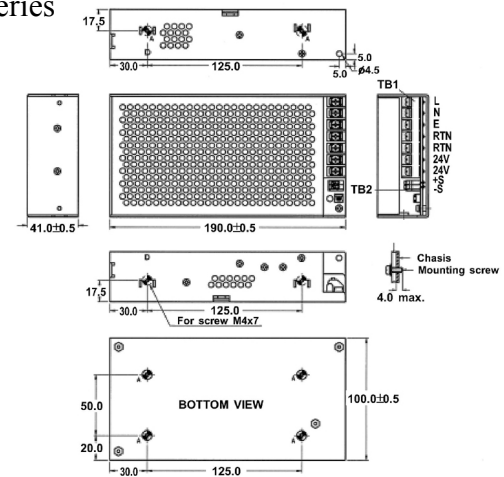
DZ-B06 Series



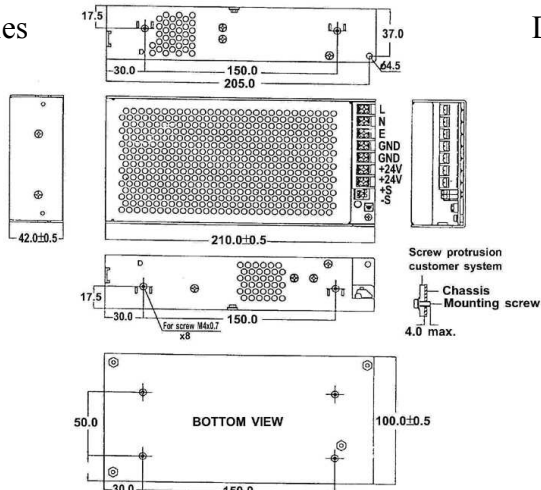
DZ-B10 Series



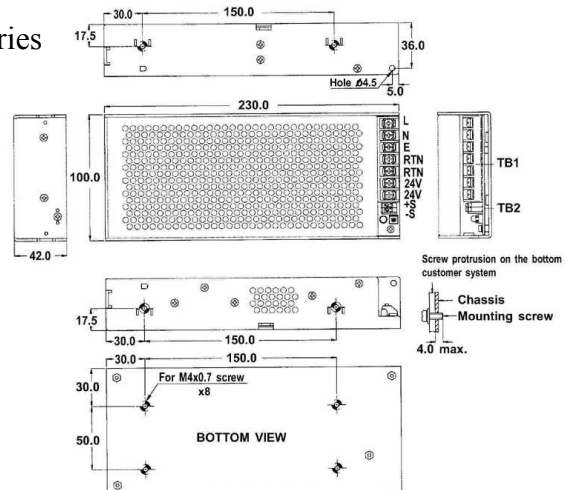
DZ-B15 Series



DZ-B20 Series



DZ-B30 Series



**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.

- Each output can provide up to peak load temporarily. Continuous operation at greater 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 20MHz bandwidth limited oscilloscope. Each output is terminated 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 when the main output drops down regulation limit.
- Efficiency is measured at rated and nominal load.