



**TRI-MAG, Inc.**  
 your POWER Specialists

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# DZ100 SERIES

## 100 Watts with PFC

### UNIVERSAL INPUT



#### GENERAL SPECIFICATIONS

Input Voltage..... 90VAC to 260VAC  
 Input Frequency..... 47Hz to 63Hz  
 Inrush Current (cold)..... Less than 50A at  
 220VAC, 25°C  
 Operating Temperature..... 0 to 50°C  
 Storage Temperature..... - 20°C to  
 85°C  
 Cooling..... Free Air Convection  
 Efficiency.....85-90% Typical  
 Holdup Time.....>20ms at 115VAC  
 Overvoltage Type..... Crowbar  
 Overload Protection..... Foldback  
 Within 150% rated load  
 Switching Frequency..... >30KHz  
 Safety:  
 Designed in full compliance with..... UL 1950  
 CSA 22.2 #234  
 VDE EN60950  
 EMI.....EN55022 "B"  
 FCC docket class "B"  
 EN61000-3-2

#### DESCRIPTION

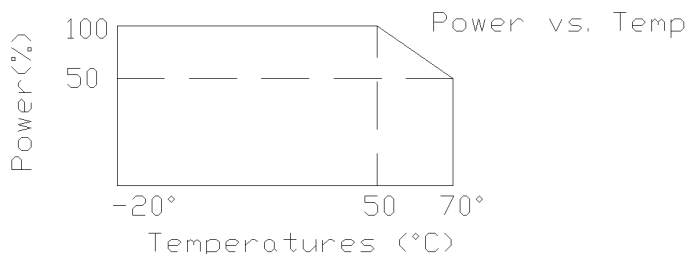
DZ100 series is a univeral input multiple output power supply. The series is a 100 watts power supply in the size of 3"x 5" with PFC and high density 6W/in<sup>3</sup>. The efficiency can reach up to 85-90% depending on model.

#### FEATURES

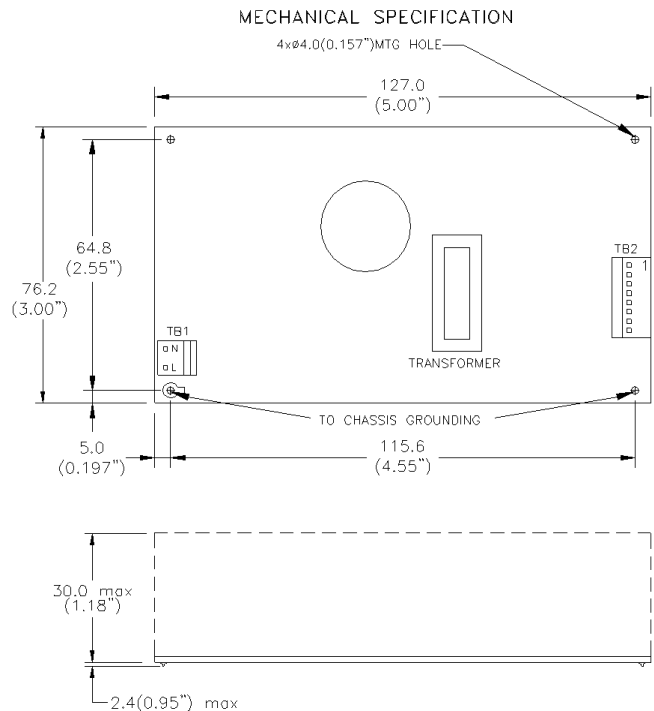
- EMI FCC Class B
- Power Factor Correction
- No Minimum Load Required
- Single and Multiple Output
- Universal input 90VAC to 260VAC

#### APPLICATIONS

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



#### MECHANICAL SPECIFICATIONS





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**OUTPUT SPECIFICATIONS**

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ100-6	100	+5V	0	20	-	1%	50 mV	0.5%	+1%
DZ100-7	100	+12V	0	9	-	1%	100 mV	0.5%	+1%
DZ100-8	100	+15V	0	7	-	1%	100 mV	0.5%	+1%
DZ100-9	100	+24V	0	4.5	-	1%	200 mV	0.5%	+1%
DZ100-2	100	+5V	0	8	12	1%	50 mV	0.5%	±1%
		+12V	0	3	5	5%	100 mV	0.5%	±5%
		-12V	0	0.5	1	5%	100 mV	0.5%	±5%
DZ100-19	100	+3.3V	0	10	15	3%	50 mV	0.5%	+1%
		+5V	0	8	10	5%	50 mV	0.5%	±5%
		+12V	0	0.5	1	5%	100 mV	0.5%	±5%
DZ100-14	100	+48V	0	2.3	2.7	1%	200 mV	0.5%	±1%
DZ100-18	100	+3.3V	0	25	30	1%	50 mV	0.5%	±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 15MHz 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 to 95% output voltage at rated load and nominal line.
7. Efficiency is measured at rated load.

“U” shape and enclosed available. DZ100-XXEC for Enclosed and DZ100-XXEU for “U” shape.

**EC**




Figure	Inches	(mm)
A	6.22	158
B	3.66	93
C	1.45	36.8
D	5.00	127
E	1.93	49
F	0.79	20
G	0.79	20
H	0.28	7.11
I	0.86	21.8
J	4.00	101.6

