

# DZ080 SERIES

## 85Watts For Medical & Industrial Applications

### 135 Watts Peak Current



#### DESCRIPTION

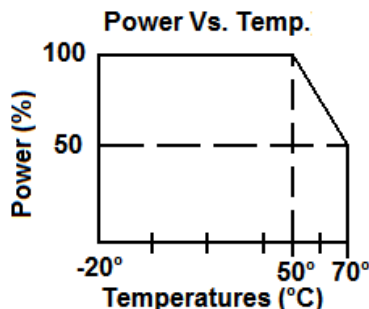
DZ080 series is a universal input multiple output power supply. The series is an 85 Watt power supply in the size of 2.5" x 4.5" with a wattage density of 6.4W/in<sup>3</sup>. The efficiency can reach up to 79-87% depending on model.

#### FEATURES

- EMI FCC Class B
- No Minimum Load Required
- Single and Multiple Output
- Universal input 90VAC to 264VAC
- Low Leakage Current
- Double Fused

#### APPLICATIONS

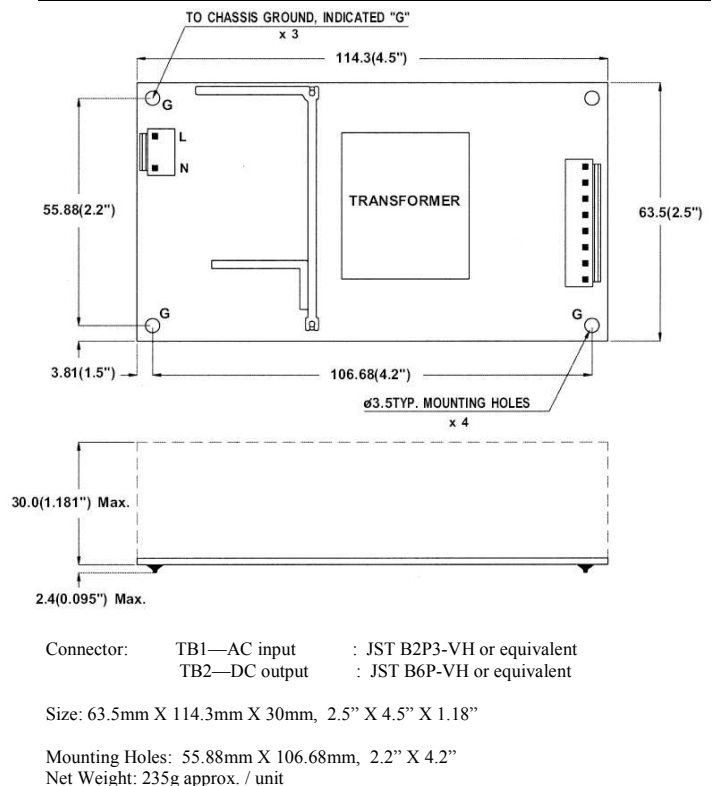
- Computer Peripherals
- Telecommunications
- Tape Drives
- Test Instrumentation Product
- Data Acquisition
- Medical & Dental



#### GENERAL SPECIFICATIONS

Input Voltage.....	90VAC to 264VAC
Input Frequency.....	47Hz to 63Hz
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.....	82% Typical
Holdup Time.....	>20ms at 115VAC
Oversvoltage Type.....	Latch Off
Overload Protection.....	Auto recovery
Short Circuit Protection.....	Auto recovery
Earth Leakage.....	300µA Max @ 240VAC
Designed in full compliance with	UL 60950-1, UL60601-1 CSA 22.2 #601-1,#60950-1 EN60601-1
EMI .....	EN55022 "B", EN55011 "B" FCC docket class "B"
EMS.....	EN61000-4-2,-3,-4,-5,-6,-8,-11
Harmonics.....	EN61000-3-2

#### MECHANICAL SPECIFICATIONS



**OUTPUT SPECIFICATIONS**

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ080-1	85	+5V	0	6	15	2%	50 mV	1.0%	±3%
		+12V	0	4	10	5%	120 mV	1.0%	±3%
		-12V	0	0.5	-	5%	120 mV	1.0%	±5%
DZ080-3	85	+5V	0	6	15	2%	50 mV	1.0%	±3%
		+12V	0	4	10	5%	120 mV	1.0%	±3%
DZ080-6	85	+5V	0	15	-	1%	50 mV	1.0%	±1%
DZ080-7	85	+12V	0	6.5	11	1%	120 mV	1.0%	±1%
		+5V	0	0.5	-	5%	50 mV	1.0%	±1%
DZ080-7-1	85	+12V	0	7	11	1%	120 mV	1.0%	±1%
DZ080-9	85	+24V	0	3.6	5.0	1%	240 mV	1.0%	±1%
		+5V	0	0.5	-	5%	50 mV	1.0%	±1%
DZ080-9-1	85	+24V	0	3.75	5.6	1%	240 mV	1.0%	±1%
DZ080-11	80	+5V	0	6	15	5%	50 mV	1.0%	±3%
		+12V	0	0.5	-	5%	50 mV	1.0%	±3%
		+24V	0	2	5	5%	120 mV	1.0%	±5%
DZ080-14	85	+48V	0	1.88	2.8	1%	480 mV	1.0%	±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 15MHz 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 to 95% output voltage at rated load and nominal line.
- Efficiency is measured at rated load.

**DZ080 SERIES 85 WATT— PIN ASSIGNMENT**

Model \ Pin	1	2	3	4	5	6	7	8
DZ080-1	+12V	+12V	COM	COM	COM	+5V	+5V	-12V
DZ080-3	+12V	+12V	COM	COM	COM	+5V	+5V	N/C
DZ080-6	COM	COM	COM	COM	+5V	+5V	+5V	+5V
DZ080-7	COM	COM	COM	+12V	+12V	+12V	+5V	
DZ080-7-1	COM	COM	COM	+12V	+12V	+12V	N/C	
DZ080-9	COM	COM	COM	+24V	+24V	+24V	+5V	
DZ080-9-1	COM	COM	COM	+24V	+24V	+24V	N/C	
DZ080-11	+24V	+24V	COM	COM	COM	+5V	+5V	+12V
DZ080-14	COM	COM	COM	+48V	+48V	+48V	N/C	

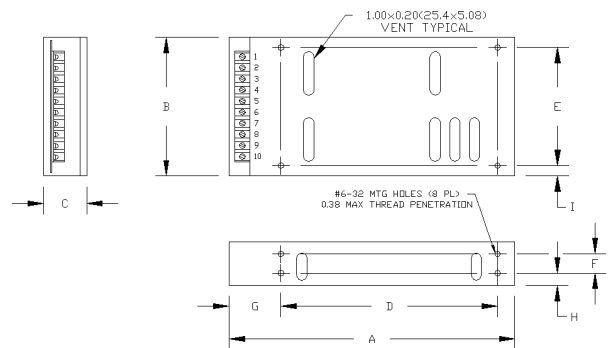
**ENCLOSURES (optional)**

Note: Package options are available for this series, EU type (U shape) and EC type (Enclosed)

**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

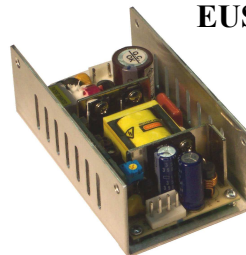


**EU**



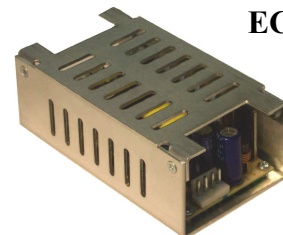
\*Note DZ065 pictured in chassis

**EUS**



\*Note DY040 pictured in chassis

**ECS**



Our Standard power supplies, the DZ080 Series, can be installed into a fully enclosed chassis or in a 'U' shape chassis as an option. These options offer two mounting planes. The fully enclosed option helps to reduce radiated noise.