

DZ100M SERIES

100 Watts with PFC

FOR MEDICAL APPLICATIONS



GENERAL SPECIFICATIONS

Input Voltage.....	90VAC to 264VAC
Input Frequency.....	47Hz to 63Hz
Power Factor.....	>0.95
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 for 100W 18CFM for 130W
Efficiency.....	85-90% Typical
Holdup Time.....	>20ms at 115VAC
Overvoltage Type.....	Latch Off
Overload Protection.....	Auto Recovery
Short Circuit Protection.....	Auto Recovery
Earth Leakage.....	250µA @240VAC
Designed in full compliance with.....	UL 60601-1 CSA 22.2 #601.1 EN60601-1
EMI.....	EN55022 "B" FCC docket class "B"
Harmonics.....	EN61000-3-2 Class D
EMS.....	EN61000-4-2, -3, -4, -5, -6, -8, -11

DESCRIPTION

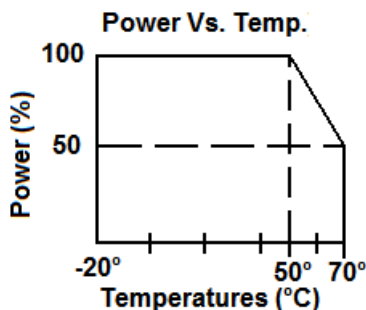
DZ100M series is a universal input multiple output power supply. The series is a 100 Watt power supply in the size of 3"x 5" with PFC and high density 6W/in³. The efficiency can reach up to 85-90% depending on model.

FEATURES

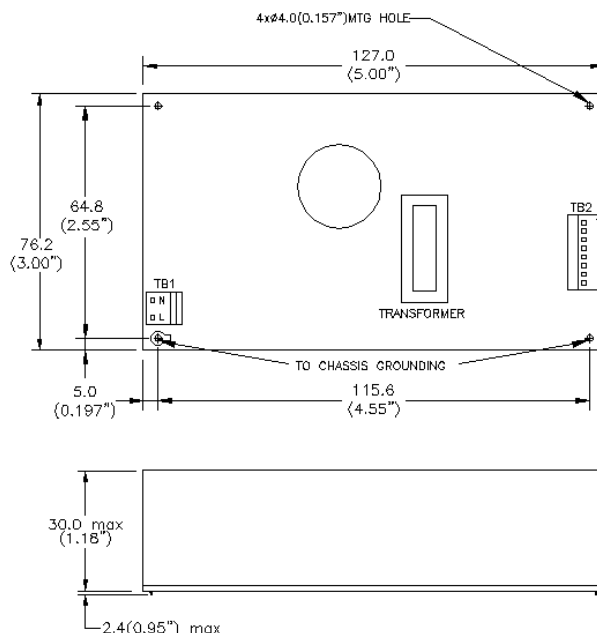
- EMI FCC Class B
- Power Factor Correction
- No Minimum Load Required
- Single and Multiple Output
- Universal input 90VAC to 260VAC
- Low Leakage
- Double Fused

APPLICATIONS

- Medical equipment
- Dental equipment
- Equipment with low leakage current requirements



MECHANICAL SPECIFICATIONS



TB1—AC input : Molex 5277-02A or equivalent
 TB2—DC output : Molex 5273-08A or equivalent
 Note: DZ100M-2, -10 Height 1.35" (34.29mm)
 127.0mm X 76.2mm X 32mm
 5" X 3" X 1.26"

OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ100M-6	100	+5V	0	20	26	1%	50 mV	0.5%	+1%
DZ100M-7	100	+12V	0	9	11	1%	100 mV	0.5%	+1%
DZ100M-8	100	+15V	0	7	8.7	1%	100 mV	0.5%	+1%
DZ100M-9	100	+24V	0	4.5	5.4	1%	200 mV	0.5%	+1%
DZ100M-14	100	+48V	0	2.1	2.7	1%	200 mV	0.5%	±1%
DZ100M-2	100	+5V	0	10	15	1%	50 mV	0.5%	±1%
		+12V	0	3	4.1	5%	120 mV	0.5%	±5%
		-12V	0	0.8	1.1	5%	120 mV	0.5%	±5%
DZ100M-10	100	+5V	0	10	15	1%	50 mV	0.5%	+1%
		+15V	0	2.5	4.1	5%	150 mV	0.5%	±5%
		-15V	0	0.8	1.1	5%	150 mV	0.5%	±5%
DZ100M-21	100	+28V	0	3.8	4.65	1%	100 mV	0.5%	±1%
DZ100M-11	100	+5V	0	2.5	4	1%	50 mV	0.5%	+1%
		+24V	0	2.8	4	5%	240 mV	0.5%	±5%
		-+12V	0	0.7	1	5%	120 mV	0.5%	±5%

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.

DZ100M SERIES 100 WATT— PIN ASSIGNMENT

Model \ Pin	1	2	3	4	5	6	7	8	9
DZ100M-2	+5V	+5V	+5V	COM	COM	COM	COM	+12V	-12V
DZ100M-6	+5V	+5V	+5V	+5V	COM	COM	COM	COM	
DZ100M-7	+12V	+12V	+12V	COM	COM	COM			
DZ100M-8	+15V	+15V	+15V	COM	COM	COM			
DZ100M-9	+24V	+24V	+24V	COM	COM	COM			
DZ100M-14	+48V	+48V	+48V	COM	COM	COM			
DZ100M-10	+5V	+5V	+5V	COM	COM	COM	COM	+15V	-15V
DZ100M-21	+28V	+28V	+28V	COM	COM	COM			
DZ100M-11	+5V	+5V	+5V	COM	COM	COM	+24V	+24V	+12V

ENCLOSURES (optional)

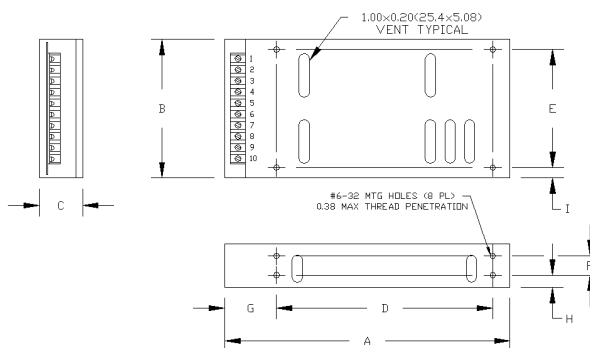
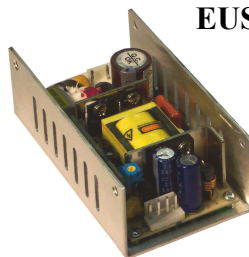
Note: Package options are available for this series, EU type (U shape) and EC type (Enclosed)

EC

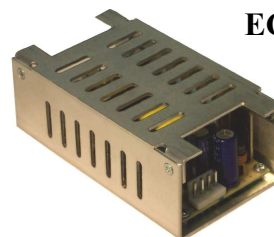
EU


*Note DZ065 pictured in chassis

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


EUS


*Note DY040 pictured in chassis

ECS


Our Standard power supplies, the DZ100M 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.