



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# DZ100 SERIES

## 100 Watts with PFC

### UNIVERSAL INPUT



#### DESCRIPTION

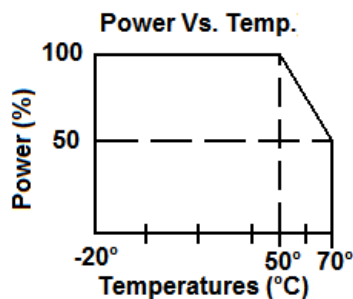
DZ100 series is a universal input multiple output power supply. The series is a 100 Watt power supply in the size of 3" x 5" with PFC and high density 6W/in<sup>3</sup>. The efficiency can reach up to 85-90% depending on model.

#### FEATURES

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

#### APPLICATIONS

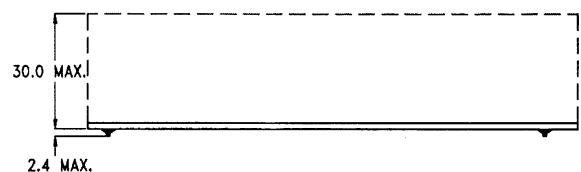
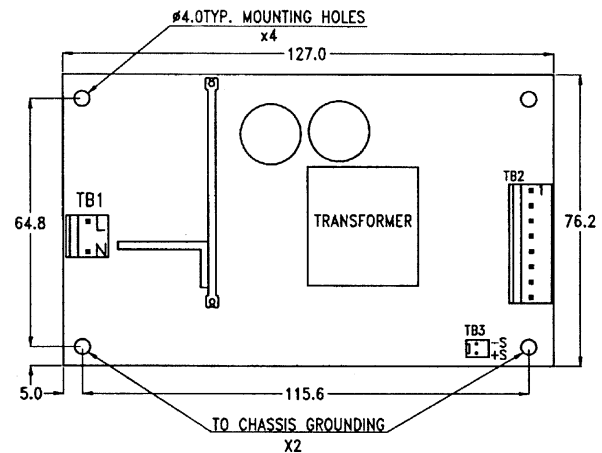
- Computer Peripherals
- Telecommunications
- Tape Drives
- Test Instrumentation Product
- Data Acquisition
- Medical



#### 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 70°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
Oversoltage Type.....	Latch Off
Overload Protection.....	Auto Recovery
Short Circuit Protection.....	Auto Recovery
Designed in full compliance with.....	UL 60950-1 CSA 22.2 #234 EN60950-1
EMI.....	EN55022 "B" FCC docket class "B"
Harmonics.....	EN61000-3-2 Class D
EMS.....	EN61000-4-2,-3,-4,-5,-6,-8,-11

#### MECHANICAL SPECIFICATIONS



Dimensions shown in mm as above. Tolerance: +/- 0.4mm.  
 Size: DZ100-6,-7,-8,-9,-14,-18      DZ100-2,-3,-19  
 127.0mm X 76.2mm X 30mm      127.0mm X 76.2mm X 32mm  
 5" X 3" X 1.18"      5" X 3" X 1.26"  
 Connectors: AC input: Molex 5277-02A or equivalent  
 DC output: Molex 5273 or equivalent  
 Remote Sense: Molex 5045-02A or equivalent.

**OUTPUT SPECIFICATIONS**

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ100-6	100	+5V	0	20	26	1%	50 mV	0.5%	±1%
DZ100-7	100	+12V	0	9	10.8	1%	120 mV	0.5%	±1%
DZ100-8	100	+15V	0	7	8.7	1%	120 mV	0.5%	±1%
DZ100-9	100	+24V	0	4.5	5.4	1%	200 mV	0.5%	±1%
DZ100-2	100	+5V	0	11.5	15	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%
DZ100-3	100	+5V	0	7.0	10	1%	50 mV	0.5%	+1%
		+12V	0	8.0	10	5%	120 mV	0.5%	±5%

**Note:** Contact factory for Safety Agency Approved status.

1. Each output can provide up to peak load temporarily. Continuous operation at greater 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. Each output is terminated 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 when the main output drops down to 95% output voltage at rated load and nominal line.
7. Efficiency is measured at rated load.

**DZ100 SERIES 100 WATT—PIN ASSIGNMENT**

Model \ Pin	1	2	3	4	5	6	7	8	9	10
DZ100-2	+5V	+5V	+5V	COM	COM	COM	COM	+12V	-12V	
DZ100-6	+5V	+5V	+5V	COM	COM	COM				
DZ100-7	+12V	+12V	+12V	COM	COM	COM				
DZ100-8	+15V	+15V	+15V	COM	COM	COM				
DZ100-9	+24V	+24V	+24V	COM	COM	COM				
DZ100-14	+48V	+48V	+48V	COM	COM	COM				
DZ100-18	+3.3V	+3.3V	+3.3V	COM	COM	COM				
DZ100-19	+3.3V	+3.3V	COM	COM	COM	COM	COM	+5V	+5V	+12V
DZ100-3	+12V	+12V	COM	COM	COM	COM	+5V	+5V		

**ENCLOSURES (optional)**

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

**EC**

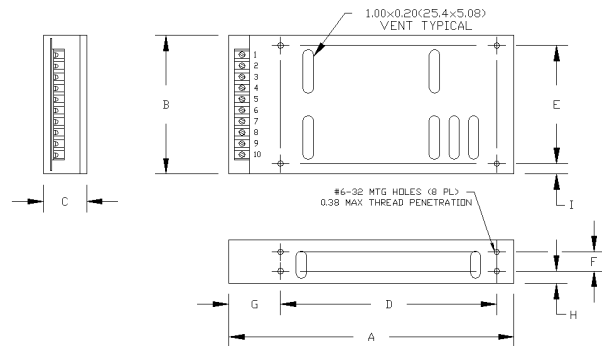


**EU**

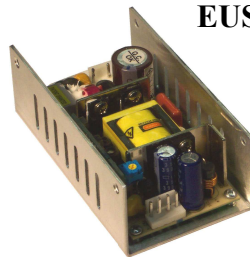


\*Note DZ065 pictured in chassis

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

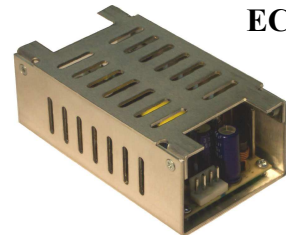


**EUS**



\*Note DY040 pictured in chassis

**ECS**



Our Standard power supplies, the DZ100 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.