TRI-MAG, LLC
® A Curtis Industries Company

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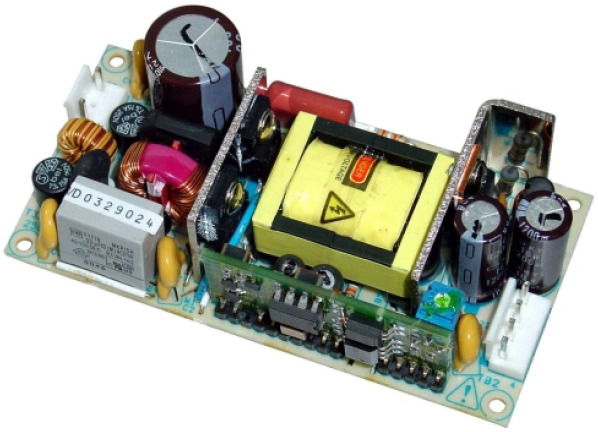
DZ065 SERIES

55 Watts For Medical & Industrial Applications



DESCRIPTION

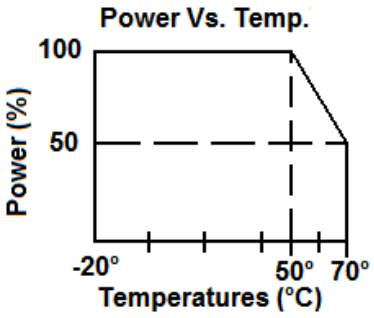
DZ065 series is a universal input power supply. The series is a 55 Watt power supply in the size of 2"x 4" with a wattage density of 5.7W/in^3. The efficiency can reach up to 85%.

FEATURES

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

APPLICATIONS

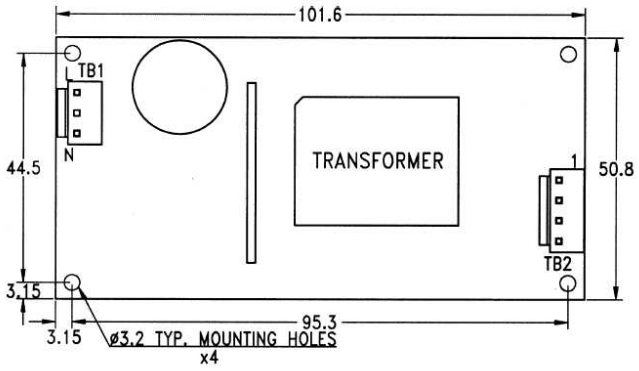
- *Computer Peripherals*
- *Telecommunications*
- *Tape Drives*
- *Test Instrumentation Product*
- *Data Acquisition*
- *Medical & Dental*

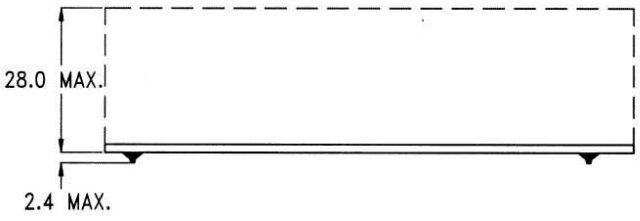


GENERAL SPECIFICATIONS

Input Voltage……..….... 90VAC to 264VAC
Input Frequency…….. 47Hz to 63Hz
Inrush Current (cold)……..…… Less than 30A at 115VAC, 25°C
Operating Temperature……..…….. 0 to 70ºC
Storage Temperature……..……. –40ºC to 85ºC
Cooling…….. Free Air Convection
Efficiency……..…..85 Typical
Holdup Time…….>14ms at 115VAC
Overvoltage Type……..…Latch off
Overload Protection……..……..…Auto-recovery
Short Circuit Protection……...Auto-recovery
Earth Leakage……..…..…....300µ Max @ 240VAC
Designed in full compliance with UL 60950-1, UL60601-1
CSA 22.2 #60950-1,#601.1
EN60950, EN60601-1
EMI ……..……EN55022 "B", EN55011 "B"
FCC docket class "B"
EMS……...EN61000-4-2,-3,-4,-5,-6,-8,-11

MECHANICAL SPECIFICATIONS





Connector: TB1—AC input : JST B2P3-VH or equivalent
TB2—DC output : JST B4P-VH or equivalent
Size: 101.6mm X 50.8mm X 30.4mm, 4" X 2" X 1.2"
Pin Assignment: P1 Vout
P2 Vout
P3 Com
P4 Com

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OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ065-7	55	+12V	0	4.6	5.4	1%	100 mV	0.5%	±0.5%
DZ065-8	55	+15V	0	3.7	4.3	1%	100 mV	0.5%	±0.5%
DZ065-9	55	+24V	0	2.3	2.7	1%	200 mV	0.5%	±0.5%
DZ065-14	55	+48V	0	1.15	1.35	1%	200 mV	0.5%	±0.5%
DZ065-18	55	+3.3V	0	8.0	10	1%	50 mV	0.5%	±1.5%
DZ065-6	55	+5V	0	7.0	9.0	1%	50 mV	0.5%	±1.5%

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.

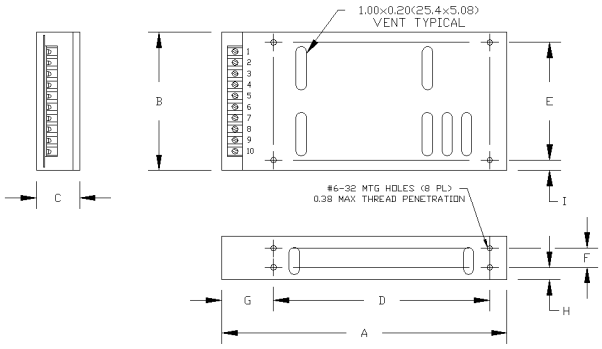
ENCLOSURES (optional)

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

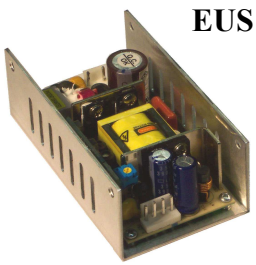
EC

EU

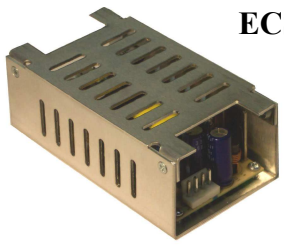
Figure	Inches	(mm)
A	5.00	127
B	2.77	70.4
C	1.60	40.6
D	2.65	67.3
E	2.00	51
F	-	-
G	1.00	25.4
H	0.80	20.3
I	0.38	9.7
J	2.50	63.5



EUS



ECS



*Note DY040 pictured in chassis

Our Standard power supplies, the DZ065 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.