

1601 N. CLANCY CT. • VISALIA, CA 93291 (559) 651-2222 • FAX (559) 651-0188 http://www.tri-mag.com sales@tri-mag.com

DESK TOP

Green Power

DT-Z SERIES

20-100 Watts

UNIVERSAL *INPUT*



DESCRIPTION

DT-Z Series is a 20, 30, 40, 60, 80 and 100 watt desk series, Desk-Top switching power supply. It comes with an IEC 320 C8, C6, or C14 inlet to accommodate worldwide applications, These power supplies are perfect for low to medium power applications. It is design with a quasi-resonant topology to increase the efficiency up to 85%. Low input power at no load condition meets green power requirements. With TRI-MAG leadership in universal power supply technology, we have been able to incorporate our proven design into this space saving desktop unit.

FEATURES

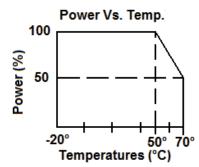
- EMI FCC Class B
- No Minimum Load Required
- Single Output
- Universal input 90VAC to 264VAC

APPLICATIONS

- Computer Peripherals
- Modems
- Hard Disk Drives
- Test Instrumentation Product

Data Acquisition

Other Applications



California Efficiency GENERAL SPECIFICATIONS

Line Voltage	90VAC to 264VAC
input Frequency	
Inrush Current (cold)	Depend on model;
	115VAC, 230VAC
Operating Temperature	20°C to 60°C
Storage Temperature	20°C to 85°C
	Free Air Convection
Efficiency	70% - 85%
Holdup Time	20ms at 115VAC
	latch off
Overload Protection	Auto recovery
	Within 150% rated load
Short Circuit Protection	Auto Recovery
Safety:	•
•	ce with UL 60950-1 LPS
	CSA 22.2 #60950-1
	EN60950-1
EMI	FCC class B
	CISPR 22 level B
EMS	EN61000-4-2,-3,-4,-5,-6,-11

MECHANICAL SPECIFICATIONS

Case Size:

DT020Z 3.78" x 2.05" x 1.25" (96 x 52 x 32.5)mm DT030Z 4.33" x 2.13" x 1.32" (110 x 54 x 33.5)mm DT040Z 4.73" x 2.29" x 1.46" (120 x 58 x 37.0)mm DT060Z 5.31" x 2.57" x 1.57" (135 x 65 x 40.0)mm DT080Z 5.7" x 2.83" x 1.65" (145 x 72 x 42.0)mm DT099Z 6.57" x 3.03" x 1.85" (167 x 77 x 47.0)mm

Connectors: AC Input IEC320

C8: DT020Z-XX, DT030Z-XX, DT040Z-XX, DT060Z-XX

C6: DT020Z-XX-3, DT030Z-XX-3, DT040Z-XX-3

C14:DT080Z, DT099Z (Only)

Connectors: DC Output

DC Power Plug

DT020Z, DT030Z, DT040Z 2.1mm I.D. x 2.5mm O.D.

4 Pin Hosiden

DT080Z, DT099Z

Length of cable:

6 ft.

DC Output: Box Color: Black



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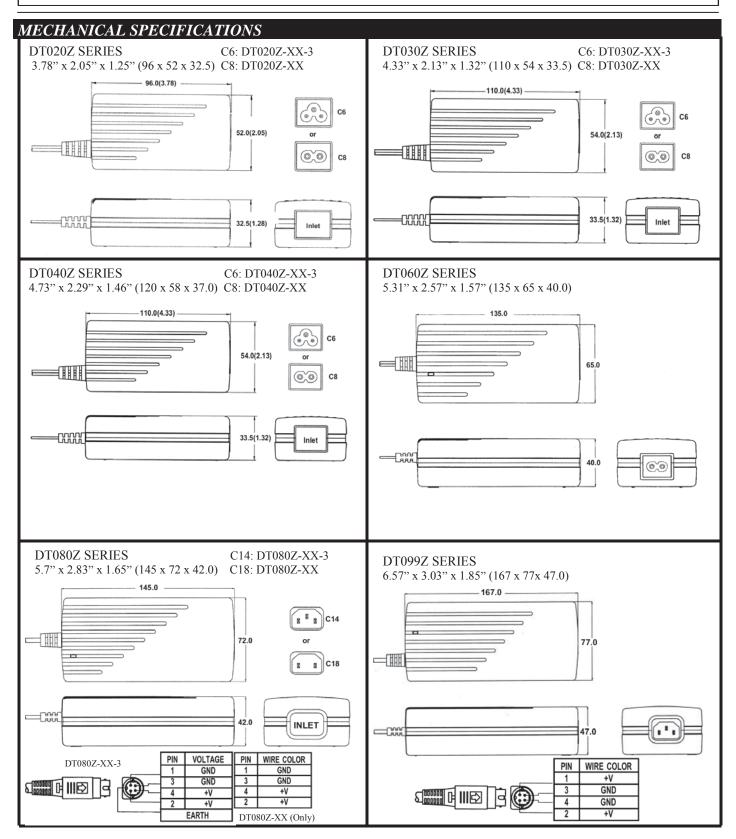
OUTPUT SPECIFICATIONS										
Model	Watts	Voltage (Vdc)	Load (A)		Tolerance	Ripple	Regulation			
			Min.	Rate	Peak	±	& Noise	Line	Load	
DT020Z-4	20	+5V	0	2.0	3.0	1%	50 mV	1%	4%	
DT020Z-17	20	+9V	0	1.8	2.5	1%	80 mV	1%	3%	
DT020Z-5	20	+12V	0	1.3	2.0	1%	80 mV	1%	2%	
DT020Z-8	20	+15V	0	1.0	1.6	1%	80 mV	1%	1%	
DT020Z-6	20	+24V	0	0.7	1.0	1%	80 mV	1%	1%	
DT020Z-14	20	+48V	0	0.35	0.5	1%	400 mV	1%	1%	
DT030Z-17	30	+9V	0	3.3	4.6	1%	150 mV	1%	5%	
DT030Z-5	30	+12V	0	2.5	4.0	1%	100 mV	1%	3%	
DT030Z-8	30	+15V	0	2.0	3.0	1%	100 mV	1%	2%	
DT030Z-6	30	+24V	0	1.3	1.8	1%	200 mV	1%	1%	
DT030Z-14	30	+48V	0	0.75	1.0	1%	400 mV	1%	1%	
DT040Z-4	40	+5V	0	6.0	9.0	1%	50 mV	1%	5%	
DT040Z-17	40	+9V	0	4.5	6.7	1%	150 mV	1%	5%	
DT040Z-5	40	+12V	0	3.7	5.6	1%	100 mV	1%	3%	
DT040Z-8	40	+15V	0	3.0	4.5	1%	100 mV	1%	2%	
DT040Z-6	40	+24V	0	1.9	2.9	1%	200 mV	1%	1%	
DT040Z-14	40	+48V	0	1.0	1.5	1%	400 mV	1%	1%	
DT060Z-5	60	+12V	0	4.2	5.0	1%	80 mV	1%	3%	
DT060Z-8	60	+15V	0	3.6	4.6	1%	80 mV	1%	3%	
DT060Z-6	60	+24V	0	2.5	3.0	1%	120 mV	1%	3%	
DT060Z-14	60	+48V	0	1.25	1.5	1%	240 mV	1%	3%	
DT080Z-5	80	+12V	0	6.0	9.0	1%	100 mV	1%	3%	
DT080Z-8	80	+15V	0	5.0	7.5	1%	100 mV	1%	3%	
DT080Z-3	80	+18V	0	4.5	6.7	1%	100 mV	1%	3%	
DT080Z-6	80	+24V	0	3.3	5.0	1%	100 mV	1%	3%	
DT080Z-14	80	+48V	0	1.75	2.5	1%	200 mV	0.5%	3%	
DT099Z-5	100	+12V	0	7.5	11	1%	100 mV	0.5%	3%	
DT099Z-8	100	+15V	0	6.0	8.6	1%	100 mV	0.5%	3%	
DT099Z-6	100	+24V	0	4.2	5.8	1%	100 mV	0.5%	3%	
DT099Z-14	100	+48V	0	2.1	2.9	1%	200 mV	0.5%	3%	

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 $\pm 10\%$ of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm 40\%$ of measured outul 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 lead 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 nomial line.
- 7. Efficiency is measured at rated load.



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All Dimension In Inches (mm) Tolerance: ±.039" (1mm)