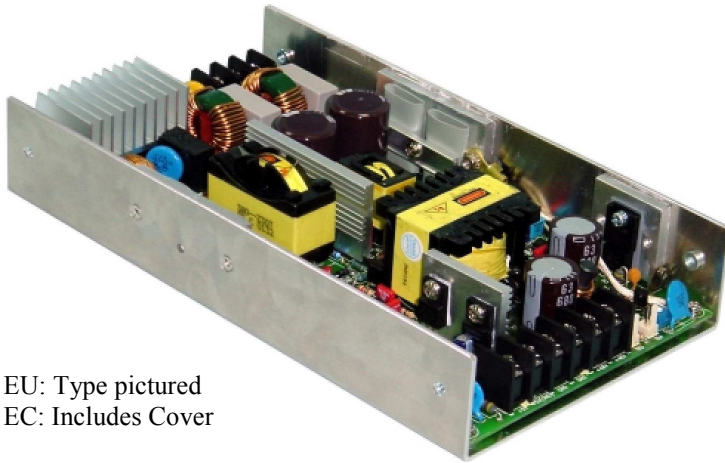


DZ300 SERIES

300 Watts with PFC

UNIVERSAL INPUT



EU: Type pictured
 EC: Includes Cover

DESCRIPTION

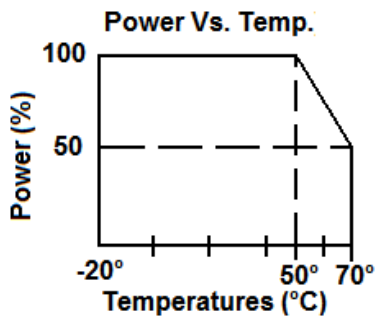
DZ300 series are 300W with active PFC in U shape chassis power supply. With soft-switching topology, low-profile height fits 1.6" constraints, high efficiency and high density in 4.2 W/in².

FEATURES

- EMI FCC Class B
- Power Factor Correction
- No Minimum Load Required
- Single and Multiple Output
- Universal input 90VAC to 264VAC

APPLICATIONS

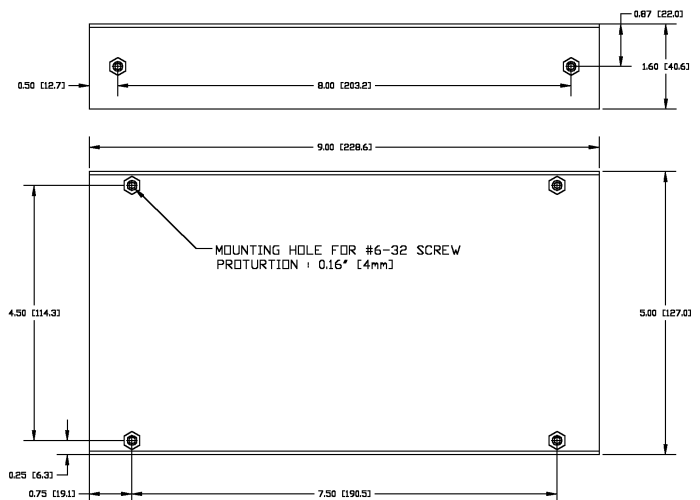
- Computer Peripherals
- Telecommunications
- Tape Drives
- Test Instrumentation Product
- Data Acquisition



GENERAL SPECIFICATIONS

Input Voltage.....	90VAC to 264VAC
Input Frequency.....	47Hz to 63Hz
Power Factor.....	>0.95
Inrush Current (cold).....	Less than 30A at 110VAC or 60A at 220VAC cold start, 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 for 300W 18CFM for 360W
Efficiency.....	80-90% Typical
Holdup Time.....	>20ms
Oversvoltage Type.....	Latch off
Overload Protection.....	Auto-recovery
Short Circuit Protection.....	Auto-recovery
Designed in full compliance with.....	UL 60950-1 CSA 22.2 #234 TUV EN60950-1
EMI.....	FCC "B" EN55022 "B"
Harmonics.....	EN61000-3-2 class D
EMS.....	EN61000-4-2,-3,-4,-5,-6,-8,-11

MECHANICAL SPECIFICATIONS



- Note:
1. Dimension shown in inch [mm] as above.
 2. Size:
5.0" X 9.0" X 1.6"
[127mm X 228.6mm X 40.6mm]
 3. Connectors:
AC Input: Terminal Blocks (See 2nd page for complete connectors listing)
DC Output: Terminal Blocks
Remote Sense and LED Molex 5045-02A or equivalent

OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DZ300-1EU DZ300-1EC	300	+5V	0	32	45	1%	50 mV	± 1%	± 1%
		+12V	0	10	14	5%	100 mV	± 1%	± 1%
		-12V	0	1	2	5%	100 mV	± 1%	± 1%
DZ300-19EU DZ300-19EC	300	+3.3V	0	20	30	3%	50 mV	± 1%	± 1%
		+5V	0	20	30	5%	50 mV	± 1%	± 1%
		+12V	0	8	10	5%	100 mV	± 1%	± 5%
DZ300-6EU DZ300-6EC	300	+5V	0	60	72	1%	50 mV	± 1%	±1%
DZ300-7EU DZ300-7EC	300	+12V	0	25	30	2%	100 mV	±1%	±1%
		+5V	0	2	-	2%	50 mV	±1%	±1%
DZ300-12EU DZ300-12EC	300	+24V	0	12	14.6	3%	200 mV	±1%	±1%
		+5V	0	2	-	2%	50 mV	±1%	±1%
DZ300-20EU DZ300-20EC	300	+48V	0	6.25	7.3	0.5%	200 mV	±1%	±1%
		+5V	0	2	-	2%	50 mV	±1%	±1%
DZ300-8EU DZ300-8EC	300	+15V	0	20	23	2%	150 mV	±1%	±1%
		+12V	0	0.5	-	2%	50 mV	±1%	±1%
DZ300-18EU DZ300-18EC	300	+3.3V	0	70	90	1%	50 mV	± 1%	±1%
DZ300-8EU(V1) DZ300-8EC(V1)	300	+15V	0	20	23	2%	150 mV	±1%	±1%
		+5V	0	2.0	-	2%	50 mV	±1%	±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.

DZ300 SERIES 300 WATT— PIN ASSIGNMENT

Pin Model	1	2	3	4	5	6	7	8	9	10	11	12
DZ300-1EU	+5V	+5V	+5V	COM	COM	COM	COM	COM	+12V	+12V		
DZ300-19EU			+12V	COM +12V	+5V	+3.3V	COM +5V	COM +3.3V				
DZ300-6EU	+5V	+5V	+5V	COM	COM	COM	COM	COM	COM	+5V	+5V	+5V
DZ300-7EU	+12V	+12V	+12V	COM	COM	COM	COM +5V	+5V				
DZ300-12EU	+24V	+24V	COM	COM	COM +5V	+5V						
DZ300-20EU	+48V	+48V	COM	COM	COM +5V	+5V						
DZ300-8EU	+15V	+15V	+15V	COM	COM	COM	COM +12V	+12V				
DZ300-18EU	+3.3V	COM	RS+	ON/OFF	P.S.	RS-						
DZ300-8EU(V1)	+15V	+15V	+15V	COM	COM	COM	COM +5V	+5V				

* P.S = POWER SHARING, RS+ = REMOTE SENSE +, RS- = REMOTE SENSE -

DESK TOP DT-Z SERIES

20-100 Watts

UNIVERSAL INPUT

Green Power

California Efficiency



GENERAL SPECIFICATIONS

Line Voltage.....	90VAC to 264VAC
Input Frequency.....	47Hz to 63Hz
Inrush Current (cold).....	Depend on model; 115VAC, 230VAC
Operating Temperature.....	-20°C to 60°C
Storage Temperature.....	-20°C to 85°C
Cooling.....	Free Air Convection
Efficiency.....	70% - 85%
Holdup Time.....	20ms at 115VAC
Overvoltage Type.....	latch off
Overload Protection.....	Auto recovery Within 150% rated load
Short Circuit Protection.....	Auto Recovery
Safety:	
Designed in full compliance 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

DESCRIPTION

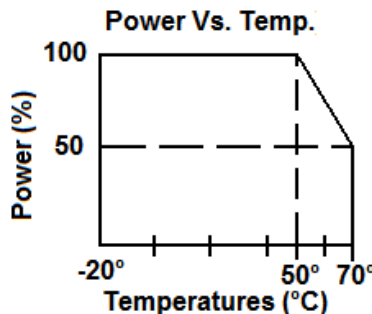
DT-Z Series is a 20, 30, 40, 60, 80 and 100 watt desk series, Desk-Top switching power supply. It comes with an IEC 320 C8, C6, or C14 inlet to accommodate worldwide applications, These power supplies are perfect for low to medium power applications. It is designed with a quasi-resonant topology to increase 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 desk-top 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



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 5.5mm O.D.

4 Pin Hosiden

DT080Z, DT099Z

Length of cable:

6 ft.

DC Output:

Box Color: Black