

# DT200Z Series

## 200 Watts Desk Top

Active PFC for Medical & ITE

### Green Power



#### DESCRIPTION

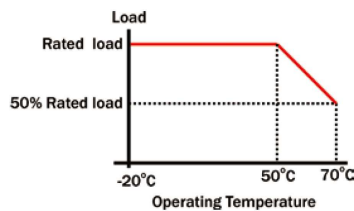
DT200Z-xx(-M) series is designed for both medical and ITE applications. It features no-load input power < 0.5 watt, PF > 0.9 and average efficiency > 87% that can comply with worldwide Green Power requirements. For indicating DC OK, a green LED is provided.

#### FEATURES

- Universal input 90VAC to 264VAC
- Green Power
- 200 Watt Desk Top Package
- Single output

#### APPLICATIONS

- ITE/Medical application
- Telecommunication
- PCB power
- Battery charging system



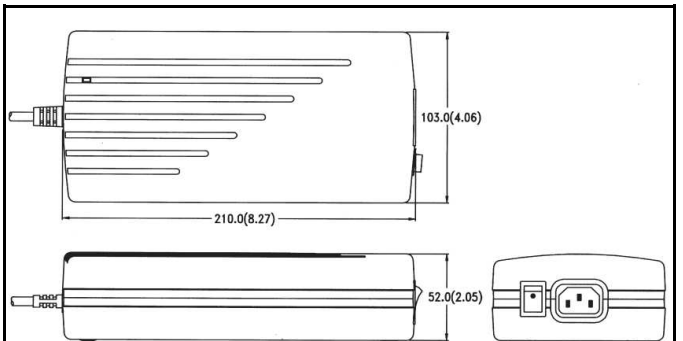
#### GENERAL SPECIFICATIONS

Input Voltage..... 90VAC to 264VAC  
 Input Frequency..... 47Hz to 63Hz  
 Inrush Current (cold)..... Less than 40A at  
 115VAC or 80A at 230VAC cold start, 25°C  
 Operating Temperature..... 0°C to 40°C  
 Storage Temperature..... -20°C to 85°C  
 Cooling..... Free Air Convection  
 Efficiency..... >87% Typical  
 Holdup Time..... >16ms  
 Overload Protection..... Auto Recovery

#### Safety :

Designed in full compliance with.....UL 60950-1  
 UL60601-1  
 EMI.....FCC "B"  
 CISPR22 level "B"  
 Harmonics.....EN61000-3-2 class D  
 EMS.....EN61000-4-2,-3,-4,-5,-6,-11

#### MECHANICAL SPECIFICATIONS



#### Note:

1. Dimensions shown in mm (inch) as left. Tolerance: ±1mm (Excluding cables).
2. Size: 210.0 X 103.0 X 52.0 (mm)
3. Packing: Net weight: 1.1kg approx. / unit  
 Gross weight: 14.0kg approx. / carton, 10 units / carton  
 Carton size (mm): 412 (L) x 336 (W) x 387 (H)
4. Connectors:  
 AC input : IEC 320-1 Inlet  
 DC output : Molex 5557-06 or equivalent
5. Output cable length: 150 cm
6. DC OK LED: Green light on top of box
7. Box color: Black



1601 N. CLANCY CT. VISALIA, CA 93291  
 PH: (559) 651-2222 FAX: (559) 651-0188  
<http://www.tri-mag.com>  
[sales@tri-mag.com](mailto:sales@tri-mag.com)

## OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DT200Z-5(-M)	200	+12	0	15	33.4	1%	200 mV	±0.5%	±3%
DT200Z-8(-M)	200	+15	0	12	21.6	1%	200 mV	±0.5%	±3%
DT200Z-3(-M)	200	+18	0	10	18.3	1%	200 mV	±0.5%	±3%
DT200Z-6(-M)	200	+24	0	8.4	14	1%	200 mV	±0.5%	±3%
DT200Z-14(-M)	200	+48	0	4.2	6.9	1%	200 mV	±0.5%	±3%

Note: (-M) is for Medical Application

Note: Contact factory for Safety Agency Approved status.

1. Each output can provide up to max load separately when the power supply starts up. Exceeding the max. output power continuously 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 output load from 60% rated load at another output set to 60% rated load.
5. The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope. Each output is terminated with a 0.47  $\mu\text{F}$  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 low limit output of main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.