TRI-MAG, LLC
® A Curtis Industries Company

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DT150Z Series

150 Watts Desk Top

Active PFC, for Medical & ITE

Green Power

DESCRIPTION

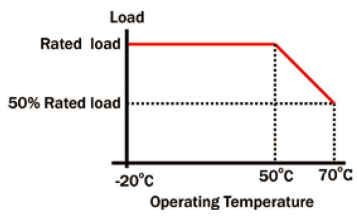
DT150Z-xx(-M) series is designed for both medical and ITE applications. It features no-load input power < 0.5 watt, PF > 0.9 and average efficiency > 87% that can comply with worldwide Green Power requirements. For indicating DC OK, a green LED is provided.

FEATURES

- *ITE/Medical applications*
- *Universal input 90VAC to 264VAC*
- *Green Power*
- *150 Watt Desk Top Package*
- *Single output*

APPLICATIONS

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

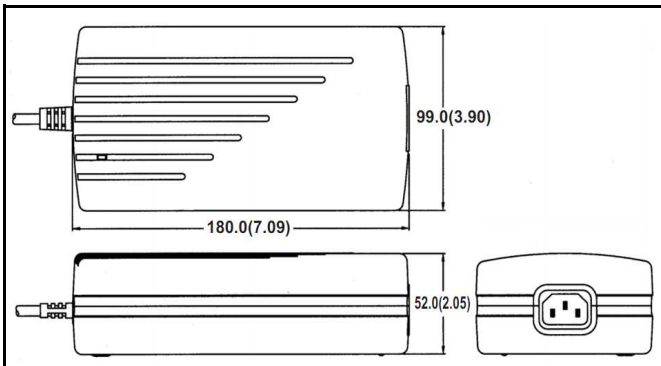


GENERAL SPECIFICATIONS

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 40ºC
Storage Temperature……..……..–20ºC to 85ºC
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
2. Size: 99.0 X 180.0 X 52.0 (mm) 3.9" X 7.09" X 2.05"
3. Connectors:
   AC input : IEC 320 Inlet
   DC output : Molex 5557-06 or equivalent
4. Output cable length: ~5'
5. DC OK LED: Green light on top of box
6. Box color: Black

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OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DT150Z-5(-M)	150	+12	0	11.25	14	1%	100 mV	±0.5%	±3%
DT150Z-8(-M)	150	+15	0	9.3	12.1	1%	100 mV	±0.5%	±3%
DT150Z-3(-M)	150	+18	0	7.8	10.1	1%	100 mV	±0.5%	±3%
DT150Z-6(-M)	150	+24	0	6	7.2	1%	100 mV	±0.5%	±3%
DT150Z-14(-M)	150	+48	0	3	N/A	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 ±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 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 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 low limit output of main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.