

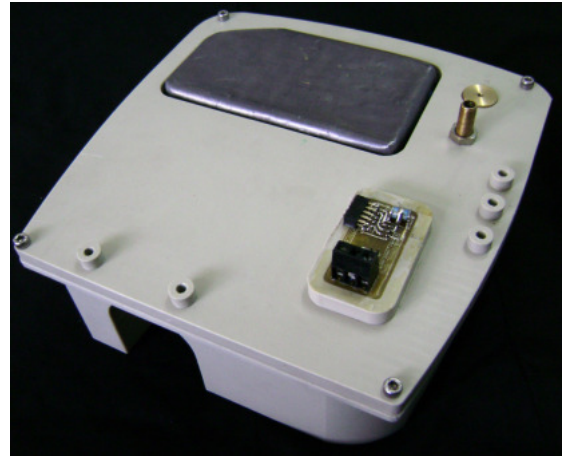
DNT Series

High Frequency Integrated X-Ray Sources

DNT-02M1

100kV, 750W

- *INTEGRATED X-RAY TUBE*
- *LEAKAGE SHIELDED*
- *OIL INSULATED AND COOLED*
- *MOULDED PLASTIC TANK*
- *MICROPROCESSOR CONTROLLED*
- *DIGITAL COMMUNICATIONS*
- *COMPACT SIZE AND LOW WEIGHT*
- *ADVANCED FAULT PROTECTION*
- *100kHz INVERTER*
- *OEM CUSTOMISATION POSSIBLE*



The DNT-02M1 is a moulded plastic tank version of the DNT-01M1. The plastic tank enables x-ray tube voltages as high as 100kV DC. The tube current is dependent on the choice of x-ray tube and is limited to a maximum of 750W of output power. The unit has an innovative leakage x-ray shield and oil expansion compensation bellow. The sealing solution is leak proof even under harsh industrial environment.

The recessed positioning of the x-ray tube enables use of a shorter external cone and still meets regulatory requirements for human use.

Digital communication enables a three point control of kV, mA and time from a remote location. The high frequency inverter in combination with a Power Factor Corrected front end ensures that the unit operates from a wide range of mains voltages.

TYPICAL APPLICATIONS

- Dental X-Ray
- Portable X-Ray
- Industrial Inspection
- Security Inspection

OPTIONS

- External ABS plastic covers.
- Universal Input Inverter for DNT series.
- Hand Held Controller for DNT series.
- Remote PC based controller for DNT series.
- Scissor Arm for tube head positioning.
- Digital Sensor with Image Processing Software.

This datasheet is preliminary subject to changes

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SPECIFICATIONS

Output Voltage:

Range: 40kV – 100kV (DC)
Ripple: Less than 2% at 200kHz
Regulation: Less than 2% (Load/Line)
Accuracy: Better than 3%
Rise Time: < 3mS

Output Load

Minimum Load: 100W (with kV)
Maximum Load: 750W
Continuous Load: 150W

Input Ratings

Voltage Range: 110V / 230V (Automatic)
Maximum Current: 10A (at 110V) 5A (at 230V)

Mechanicals (Tube Head)

Dimensions: 200x190x85 (mm)
Weight: 4kg
Tank: Moulded Plastic

Environment

Storage: - 40°C to 70°C
Operating: 10°C – 50°C
Humidity: 90% max (non-condensing)

Contact us for further details

