

X-SERIES PRODUCT

# PELTEC 4500 X-SERIES

INDUSTRIAL DESIGNED FOR NDT

## FEATURES

**COMPACT 450KV PRODUCING SOLID STATE X-RAY GENERATING SYSTEM.**

**POWER DRIVEN X-RAY TUBE POSITIONAL WITH UP AND DOWN AXIS AND EXTEND AXIS.**

**BUILT IN AREA ALARM PACKAGE WITH AUDIBLE PRE-WARNING**

**HIGHLY STABILIZED FREQUENCY WITH VERY LOW RIPPLE RATE PRODUCING SHARPER IMAGING**

**INDUSTRIAL DESIGNED FOR THE NDT MARKET.**



## SPECIAL POINTS OF INTEREST:

- Motorized Tube position axis's reaching 104 inches down to 16inches
- Built in Area alarm package with audible alarm during pre-warning
- Self diagnosis indicators presenting status of the equipment

**PLUG AND PLAY DESIGN FOR THE MODERN NDT DEPARTMENT**



**PRODUCT DESCRIPTION**

Peltec 4500 X-series Industrial X-ray compact system package was designed for vault use for the NDT industry. The unit is designed to produce 450 KV with a max output of 4500 watts. The Unit integrates a solid state power supply that is oil and gas free. The highly stabilized generating device produces a consistent 25Khz output with low ripple/noise rate which delivers a more constant

beam which produces a better image on CR, DR, and Film median. The system also features an electric tube positional which allows the end-user to adjust the tube height to desired position. The adjustable tube is capable of achieving a maximum height of 104 inches down to 16 Inches. The tube holder also has the capabilities to rotate the tube 180 degrees for angle shots. The system

can operate in a vertical or horizontal beam direction. Peltec X-series product also incorporate a full compliance area alarm package that is required for vault operation.

Peltec X-series also has a comprehensive fault diagnostic circuitry and Arc sense devices which protects the system from tube arcs.

Tube positional Controller



Remote Safety Operational controller



**PELTEC 4500 X SERIES SPECIFICATIONS**

**Input Voltage:**

180–164Vac, 47-63 hertz, power factor corrected input to  $\geq 0.98$

**Input Current:**

<25 amps

**Output polarity:**

Bipolar

**Output current:**

0-30ma

**Output Voltage:**

Load:  $\pm 0.05\%$  of rated output voltage for a full load charge

Line:  $\pm 0.05\%$  of rated output voltage over specified input range

Ripple(P-P) : < 0.1%

Accuracy: 0.25%

**Stability:**  $\leq 0.1\%$  per 8 hours, after 1 hour warm up

**Temperature Coefficient:** 50ppm/°C

**Emission Current:**

Load:  $\pm 0.05\%$  of rated output current for a change from 30% to 100% of rated

**Output voltage:**

Line:  $\pm 0.05\%$  of rated current over specified input voltage range

Accuracy: 0.25%

Stability: 100ppm/°C

**Filament:**

Output: 0-6 amps at a compliance of 10Vdc, Maximum

**Dual Focal Spot:**

Small and large, selectable via interface signal

**Configuration:**

DC filament drive. Closed loop emission control regulates filament setting to provide desired x-ray tube emission current

**Control Interface:**

System can be operated with a hardware controller or via computer.

Hardware Controller:

Remote Interface:

Ethernet utilizing a VB GUI

**Operating Temperature:**

0°C to 50°C

**Storage Temperature:**

-40°C to +85°C

**Humidity:**

20% to 85% RH, non-condensing

**Cooling Power supply:**

Forced Air

**External Chiller for cooling the oil in x-ray tube.. Chiller features quick lock connectors**

