RAXON100LPB

Paya Radiography Technology Co.

X-ray Sources - RAXON Series



RAXON100LPB



RAXON100LPB is an industrial X-ray source for producing a beam of high intensity X-rays with small focal spot and high stability which ensures uniform beam intensities and dose rate throughout its fan/cone-shaped beam. Stable voltage and electrical power applied to X-ray tube guarantees stable dose exposure and highquality images in digital radiography applications.

Applications

- Industrial Radiography
- Non-Destructive Testing
- Food Inspection
- Security Inspection
- Densitometry and Thickness Measurement

Specifications

X-ray Characteristics: Tube Type: Stationary anode, Glass tube, Tungsten target Focal Spot: 0.5mm (IEC 336) Beam Filter: 2mm thick 6061 Al, ±0.01 Beam Geometry: Symmetrical fan up to 40° x 30°, cone up to 40°

Input Voltage: 220±10% Vac, 50/60Hz, 2A maximum X-ray Tube Voltage: Nominal X-Ray tube voltage is adjustable between 60kV to 110kV with 5kV step X-ray Tube Current: 0.1-1.2mA over specified tube voltage range X-ray Tube Power: 120W, continuous mode Voltage Regulation: Line: ±0.1% for a ±10% input line change of nominal input line voltage Load: ±0.1% for a 0.1mA to 1.2mA load change Voltage Accuracy: Voltage measured across the X-ray tube is within ±2% of the programmed value Voltage Risetime: Ramp time shall be <200ms from 10% to 90% of rated output **Voltage Overshoot:** Within 5% of rated voltage in <10ms Voltage Ripple: Up to 1% pp of rated voltage **Current Regulation:** Line: ±0.1% for a ±10% input line change of nominal input line voltage Load: 0.5% @ 60-110kV, 0.1-1.2mA Current Accuracy: Current measured through the X-ray tube is within ±2% of the programmed value **Current Risetime:** <200ms from 10% to 90% of rated output Arc Intervention: 4 arcs in 10 seconds with a 200ms quench = Shutdown **Filament Configuration:** Internal high frequency AC filament drive with closed loop filament emission control **Digital Interface:** RS-232/USB/Ethernet Interface selectable port

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Control Software:

PARDIOTECH No 110 ,13th Fath, Fath highway, Tehran

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A demo GUI for engineering evaluations will be provided for the RS-232/USB/Ethernet digital interface and Encoded Command Port for customized software

Emergency Stop:

A physical emergency stop is embedded for prompt shut down in case of emergency independent of software and microcontroller modules

Operating Temperature:

0°C to +40°C **Storage Temperature:** -40°C to +70°C **Humidity:** 10% to 95% relative humidity, non-condensing

Tube Cooling: Oil circulation and cooling (Optional)

Motherboard Cooling:

Natural convection augmented by customer provided 250cfm cooling fans for continuous operation

Input Power Line Connector: Standard 3pin Line-Null-Earth connector

Dimensions:

430mm X 3255mm X 295mm Weight: 40 kg

Installation Orientation: Can be mounted in any orientation.

X-ray Leakage:

Not to be greater than 5μ S/hr at 5cm outside the external surface (EN61010-1)

Accessories:

RS-232/USB Connection cable Ethernet connection cable User Manual Software

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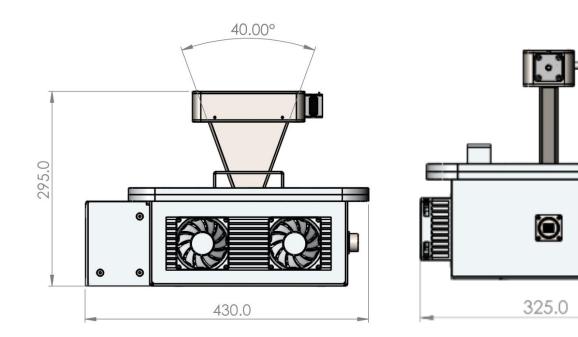
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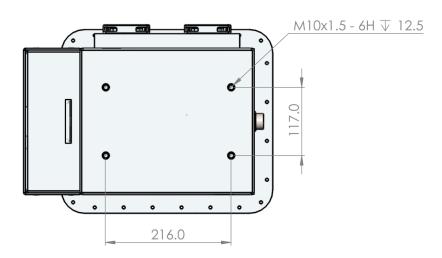
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Dimensions are in millimeters

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