IXS161k 160 kV, 1 -1.5 kW



Multipurpose Sources With Metal Ceramic Tube

Applications

Industrial NDT, Security, General X-ray Operations

Key Features

- Intergrated High Voltage Generator, Metal Ceramic X-ray Tube and Control Electronics
- Robust Configuration with Metal Ceramic tube for higher Perfermance and Power
- Design to operate in rotational gantry attributed to its compactness modular design for weight distribution and balance
- Radiation Shielded
- RS232/422 Digital Interface

Specifications	
Input Line Range	220 VAC ±10%, 50/60 Hz
Output kV	80–160 kV
Output mA	1.0-8.0 mA
Output Power	1kW continuous (up to 1.5kW)
Voltage Regulation	< 0.1% for combined line and load
Current Regulation	<0.5% for combined line and load
kV Ripple	<0.2%rms at Frequency ≤10KHz
	≤2% peak-peak at Frequency >10KHz
Repeatability	kV: ±0.1%
	mA: <0.5%
Overshoot	kV: ≤5% of rated output voltage
Output Rise Time	kV rise time is 2-3sec from 0 to
	programmed kV
Cooling	X-ray tube: Water Cooled
	HV Module: Air Cooled
Radiation shield	Less than 0.5 mR/hr at 5cm from the
	surface of the chassis as per FDA 21
	CFR 1020.40
Safety and Regulatory	Designed to meet CE,
Compliances	EN/UL61010-1 and EN61326-1
	Generator: 527mm x 214mm x 368mm
	Control unit: 411mm x 259mm x 133mm
	Generatort: 36 Kg
	Control unit: 10Kg

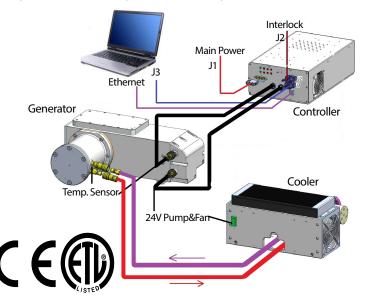


Generator		

Control Inverter

X-ray Tube		
X-ray Tube Type	Metal Ceramic, Anode Grounded	
X-ray Focal Spot Size	1.5mmx1.6mm (For Ref. only) EN12543	
Beam Port	Fan beam: 90° x 15° (For Ref. only)	
Operating Environment		
Operating Temperature	5°C to 40°C	
Storage Temperature	-20°C to 80°C	
Thermal Cut Off	60°C ± 3°C of oil temperature	
Humidity	10%-90% non-condensing	

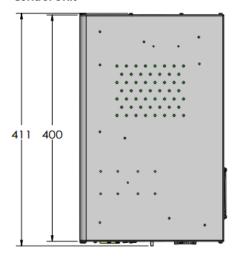
System Connection Diagram (Reference Only)

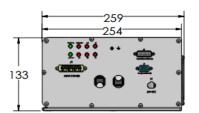




Generator 527±1 516 118±0.5 F.S 172.3 Unit: mm

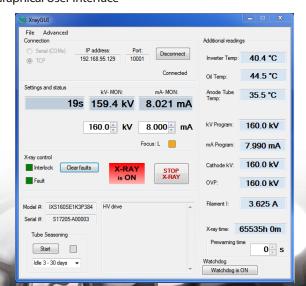
Control Unit





Unit: mm

Graphical User Interface



LED Indicator	ED Indicators	
POWER	Illuminated when Power is present	
X-ray ON	Illuminated when Interlock is closed and HV is enabled	
ARC	ARC-ing fault	
ОС	Over Current Fault	
ОТ	Illuminated when oil temperature exceeds 60±3°C	
ОР	Illuminates when selected power exceeds the rated power	

J1: AC Input

OV

N	Neutral
GND	Ground
L	220VAC ±10% Input

Over Voltage fault

J2 Connector: Interlock

Pin Out	Name
1	Interlock out(+12VDC)
2	Interlock In(+12VDC)
3	X-ray On Relay (SSR) contact Common
4	N/A
5	X-ray Relay (SSR) Contact N/O (LH1502BACTR) (200mA max)
6	Ground
7	N/A
8	N/A
9	N/A
10	N/A
11	N/A
12	N/A
13	N/A
14	Cooler Fault
15	N/A

J3 Connector: RS422 (9 Pin Female)

Pin Out	Name	
1	N/A	
2	TX-(Transmit)	
3	RX+(Received)	
4	N/A	
5	Signal Ground	
6	N/A	
7	N/A	
8	N/A	
9	N/A	11