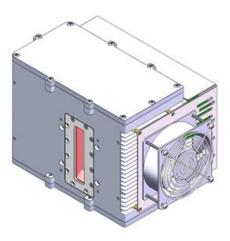


3.HVC802B0 X-Ray Source



Introduction:

The HVC802B0 X-Ray Source is an exceptionally compact, portable, and reliable line of high voltage X-ray generators. Using in allowable operating ambient temperature, it is capable to self-heat dissipate up to 100W continuous with no additional cooling. The X-ray generator integrates the high voltage inverter, filament supply, X-ray tube and X-ray housing into one unit. The High Voltage X-ray Unit is an 80kV/100W, High Frequency, self-cooled, self-protected & self-contained X-ray generator. It consists of an X-ray tank, and a control box. The Generator is controlled, programmed and monitored via a standard RS232 interface.

Features:

- 1. Integrated design with high electrical integration and a compact appearance
- 2. Capable of continuous, uninterrupted operation for extended periods
- 3. High stability
- 4. Can be installed in any orientation
- 5. Standard RS232 digital interface, easy to use
- 6. Optional passive or forced-air cooling.

Application:

Food testing, industrial non-destructive testing, dangerous goods testing and other fields, mostly used for simple X-ray machines or mobile X-ray testing equipment

Specification:

Item	Specification
Input voltage	230VAC±10%, 50/60Hz, 1.2Amps



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Output power of X ray tube	Max continuous output power 100W (80kV/1.25mA,50kv/2mA)	
Output voltage	Rated output voltage: Continuously adjustable voltage range 20kV80kV	
	Output voltage ripple: ±0.5% (peak to peak)	
	Output voltage accuracy: ±2% of voltage setting value	
	line regulation: ±0.1%	
	load regulation: ±0.1%	
Tube current	Rated tube current: Continuously adjustable current range 0.5mA-2mA	
	Tube current accuracy: ±1% mA of current setting value	
	line regulation: ±0.5%	
	load regulation: ±0.5%	
kV Rise Time at maximum	At max power, voltage rise time is <0.6s; below 40kV, <0.1s.	
power:		
Filament power supply:	input voltage: 24VDC	
	filament voltage: 1 to 4Vac	
	Filament current: 1.0 to 4.5 Amps RMS	
	preheating time: 3sec	
Tube feature	Tube type: fixed anode, glass envelope, tungsten target	
	focus: 0.5mm	
	inherent filtration: 0.8mm Be, 0.7mm Al	
	radiation angle: 80°*16° fan beam	
	target angle: 20°	
Cooling	transformer oil, Air-cooled model	
Working temperatures	-10°C40°C	
Storing temperature	-20°C60°C	
System temperature	60°C + 3°C of Oil temperature	
protection	60°C ± 3°C of Oil temperature:	
Humidness	98%, Non-condensation	
Weight	15kg	
Installation direction	Installation in any direction	
Radiation angle	16°×80°	
X-ray leakage	Less than 0.5mR/hr at 5cm from the surface of the HVC802B0.	

JB1/AC~(AC Input Power Connector)

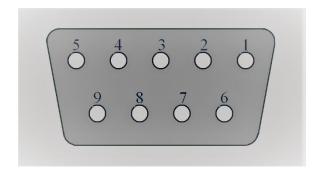


AC Input Power C	onne
JB2/COM (DMR-9S interface defi	initions)

Pin	Signal	Parameter
1	L	live wire
2	N	Neutral line
3	G	PE



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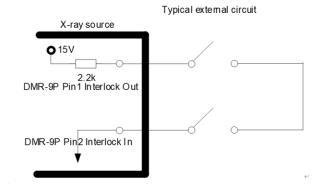
Pin	Signal	Parameter
1.4.6.7.8.9	N/C	No connect
2	TXD	Data transmit
3	RXD	Data receive
5	GND	Signal Gnd

JB3/Interlock,(DMR-9P interface definitions)



Pin	Signal	Parameter
3/4/5/6/7 /8/9	N/C	No connect
1	Interlock Out	
2	Interlock In	

Short connect pin1 and pin2 make X ray source normal operation. Typical connection:





HVC802B0

Unit:mm

