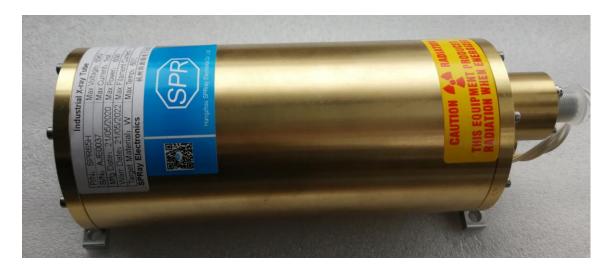


# SPR65H (V0) Datasheet

(Version No. A1)



### Product characteristics

The SPR65H is a multi-purpose X-ray tube housing. The shell material is Brass, Insulation oil is used for high voltage insulation and cooling in the ray tube. The anode of this X-ray tube housing is connected to high voltage, and the cathode is grounded. Brass case improves heat dissipation performance and radiation shielding more effectively.

### Application

It is widely used in RoHS detection, X-ray fluorescence analysis, density analysis, X-ray imaging, on-line process control and other scientific research field and industrial sectors. Mainly used for PCB industry detection, and the thickness of the coating thickness detection.

# Hangzhou SPRay Electronics Co.,Ltd.



# **Technicalc Data**

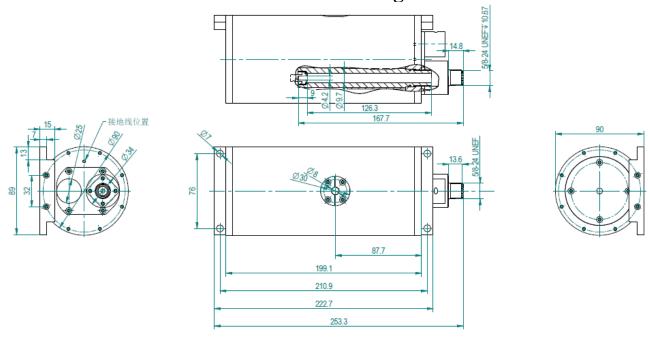
	cennicale Data					
Electrical:						
High Voltage Generator		Constant Potential High-Voltage Gene	erator			
Grounding		mono	polar			
Nominal X-ray Tube Voltage (IEC60613:2	2010)	65	5 kV			
Nominal Anode Input Power			50W			
Focal Spot Size (EN12543)		10	)0μm			
Mechanical:			•			
Overall Length		253.3 r	nm			
Maximum Diameter						
High voltage receptacle						
Target:						
		12 degr	ees			
<u> </u>		20 de				
<b>C</b>		tung	_			
		tung	Stell			
Weight:		<b>.1</b> ~	41			
The weight of the product		About 5.	4Kg			
<b>Absolute Maximum and Minimum Ratings</b>						
Absolute Maxii	num and mini	mum Kaungs				
(At any time, t)	nese values must	not be exceeded.)				
Maximum X-ray Tube Voltage (IEC60613			kV			
Minimum X-ray Tube Voltage (IEC60613						
Maximum X-ray Tube Current (IEC60613						
Maximum Filament Current						
Filament Voltage (At maximum filament current 2.1A) Inherent Filtration						
Filament Frequency Limits						
1 5						
Emission characteristics						
Leakage values						
		<0.5µGy/h@5cm (GBZ115-2002				
Cooling Method		Forced air @ 150	CFM			
O						
	perating Limits					
Operating Limits:						
Housing temperature		$0 \sim 55$	$^{\circ}\mathrm{C}$			
Shipping and Storage Limits:						
Temperature		40~ 55	5 °C			
Humidity			) %			
Atmospheric Pressure		$50 \sim 106$	kPa			
The second secon						
Maintaining seasoning schedule						
1. Seasoning schedule for the first used even	eryday					
No. Tube Voltage/kV	Tube current/mA	Time/min				
1 40	1	10				
2. Seasoning schedule for more than 1 wee		10				
2. Seasoning schedule for more than I wet	A TO 1					

No.	Tube Voltage/kV	Tube current/mA	Time/min
1	40	1	15
2	50	1	0.5
3	60	1	0.5
4	65	0.9	0.5

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## **Outline Drawing**



## Cautions!!!

X-ray housing will emit X-ray when it is energized with high voltage, Special knowledge should be required and cautions need to be taken when handling it.

- 1. Only a qualified specialist with X-Ray tube knowledge should assemble, maintain and remove the tube. In transportation and handling, please be very careful not to cause X ray tube components to be subjected to strong impact and vibration.
- 2. Tube insert connected to H.V. supply is a radiation source: be sure to take all necessary safety cautions.
- 3. The X-ray housing needs good heat radiation protection and reasonable use of fans for heat radiation.
- 4. Tube inserts contain environment polluting materials, particularly lead liner tubes. Please apply to qualified operator for waste disposal, according to local regulation requirements.
- 5. When any abnormalities are found during operation, immediately switch off the power supply and contact the service engineer.
- 6. Because the inner diameter of the cable sleeve is 9.7mm, the diameter that the insulation layer of the power cable meets 8.8mm at least, and the cable should reach 75 kV or more. The insulating silicone grease is used to reduce the arcing.
- 7. Tube insert connected to H.V. supply is a radiation source, and it is produced according to state-of-the–art technology: It is strictly forbidden to dismantle it privately.

### **Notes**

- In the interest of complying with legal requirements concerning the environmental compatibility of our products (protection of natural resources, avoidance of waste) we endeavor to reuse components and to return them to the production cycle. We guarantee the functioning, quality and life of these components by taking extensive quality assurance measures, just as for factory-new components.
- The latest version of the instructions is issued on the official website, subject to change without notice.