TXB1800 Series

X-ray Source | 50kV,4W,X-ray Monoblock



- Compact design ideal for handheld, portable and benchtop instruments
- Low power consumption compatible with battery operation
- Easy to operate analog control interface
- Integrated design no high voltage cables
- Machined metal enclosure precision mounting and alignment
- Patented X-ray Omnishield™ 360 degree light weight radiation shielding
- Wide cone angle 110 degree full width x-ray cone angle
- Threaded adapter for collimated applications optional

Product Introduction:

Teslaman TXB1800 series x-ray monoblock is a fully integrated miniature 50 kV,4W x-ray generator designed specifically to be used as component of a handheld,portable,or benchtop x-ray instrument.

The source includes a miniature sealed x-ray tube with a transmission-type end window,a high voltage power supply,and control electronics contained in a compact grounded enclosure.

Typical Applications:

XRF Materials Analysis; Alloy and metal sorting; ROHS and ELV compliance; Environmental analysis; Forensic science; Mining and geology; Art and archeology; Coating thickness; Lead detection; Quality control; Precious metal verification; X-ray Imaging; Medical, dental, small animal; NDT; Security, contraband;

Specification Description:

Input	5-12VDC.	
Output	Customize from 5kV to 50kV,maximum power 4W.	
Cathode Type	Tungsten filament.	
X-ray window	Be,125μm.	
Target Type	Transmission.	
Available Targets	Au,Ag,Rh,W	
Depth to focal spot	2.4mm.	
X-ray cone Angle	110°.	
HV polarity	Grounded anode.	
Stability	Less than 0.1% every 8 hours after half hour warm-up.	
Electrical Insulation	Silicone potting.	
Radiation Shielding	Self-shielded.	
Environmental	Operational: -10°C to +50°C. Storage: -25°C to +85°C.	
Cooling	Air cooled.	
Humidity	90% max(non-condensing).	
Weight	about 365g.	

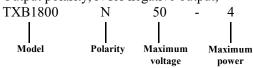
Description of Model Code

The model code represents the performance and parameters of the power supply, which are:

Maximum output voltage in kV;

Maximum output power in W;

Output polarity, N for negative output;



TXB1800 Series High Voltage Power Supply Model Selection Table:

Output Rating		Model of Power Supply
kV	mA	Widder of Fower Supply
50	0.08	TXB1800N50-4

Analog Interface:

PIN	Description
1	V+
2	V+
3	GND
4	GND
5	Tube I Control
6	Tube HV Control
7	Tube Ready
8	Tube Enable
9	Tube HV Monitor
10	Tube I Monitor

Dimensions: mm

