X-ray Tube Power Supply

Shasta series

Oxford Instruments Shasta series power supply features a robust design that has been optimized to power grounded filament X-ray tubes from Oxford Instruments, yet its versatility enables it to power virtually any grounded filament X-ray tube.

Utilizing closed loop emission control circuitry that delivers low ripple, Shasta provides highly regulated beam current and high stability resulting in superior performance. Local and remote analog control enables convenient operation in setting voltage & emission current.

• Models with grid focus control are designed to provide optimal performance with our Apogee tubes

Benefits

- Compact Design
- Adjustable Emission Current
- Voltage & Current Programming
- Safety Interlock
- Bias Voltage Option Available
- CE & TUV Certified



Applications

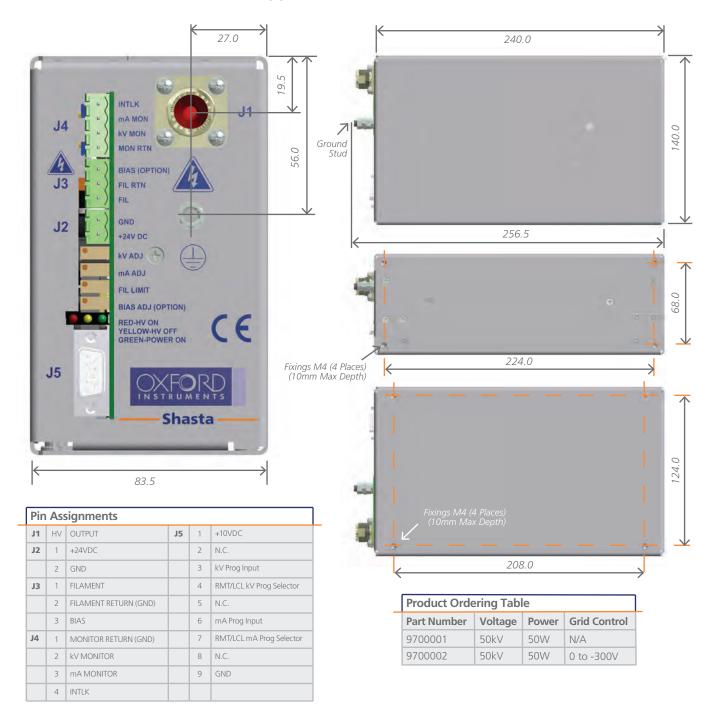
• XRF, XRD, Medical Imaging, Industrial Inspection & NDT

Specifications	
Operating voltage range:	0-50kV
Maximum Power:	50W
Maximum beam current:	1.0mA
DC Filament Supply:	Current: 0.3 to 3.5A Voltage: 0 to 5.0 VDC
Voltage Regulation:	Load: < 0.01 % for 50% of max load variation Line: < 0.01% for 10% change in input voltage
Current Regulation:	Load: $< \pm 2\mu A$ (Beam Current) Line: $< \pm 2\mu A$ (Beam Current)
Ripple:	< 100V peak to peak
Stability:	± 0.1% over an 8-hour period after 30-minutes warm-up
Input Voltage & Power:	24VDC, ± 10%; 100 Watts
Voltage Control:	Local: via multi-turn potentiometer (kV ADJ) Remote: via external voltage source 0 to 10V (accuracy \pm 1%)
Interlock:	Short to GND through a 12V lamp: HV/ON, OPEN:HV/OFF
Protection:	Over voltage, over current protection. Arc, short circuit.
Temperature Conditions:	Operational: 0 to 45°C Storage: -20 to + 85°C
Temperature Coefficient:	0.01 % per °C, voltage and current
Dimensions:	5.5" H x 3.3" W x 9.45" D (140mm x 83.5mm x 240mm)
Weight:	3.6 kg (7.9 lbs.)
Regulatory & Safety:	Meets the requirements of IEC61010-1:2010, EN61010-1: 2010, UL61010-1: 2012, CA N/CSA C22.2 No. 61010- 1:2012 and 2006/95/EC Low Voltage Directive. Product carries the TUV SUD c/us mark.



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Shasta 50kV & 60kV Power Supplies



Visit xray.oxinst.com or xray-sales@oxinst.com for more information.

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X-ray Technology 360 El Pueblo Road Scotts Valley, CA 95066, USA

Phone: +1 (831) 439-9729 Fax: +1 (831) 439-6050 Email: xray-sales@oxinst.com



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