

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
- UL, CE & TUV Certified

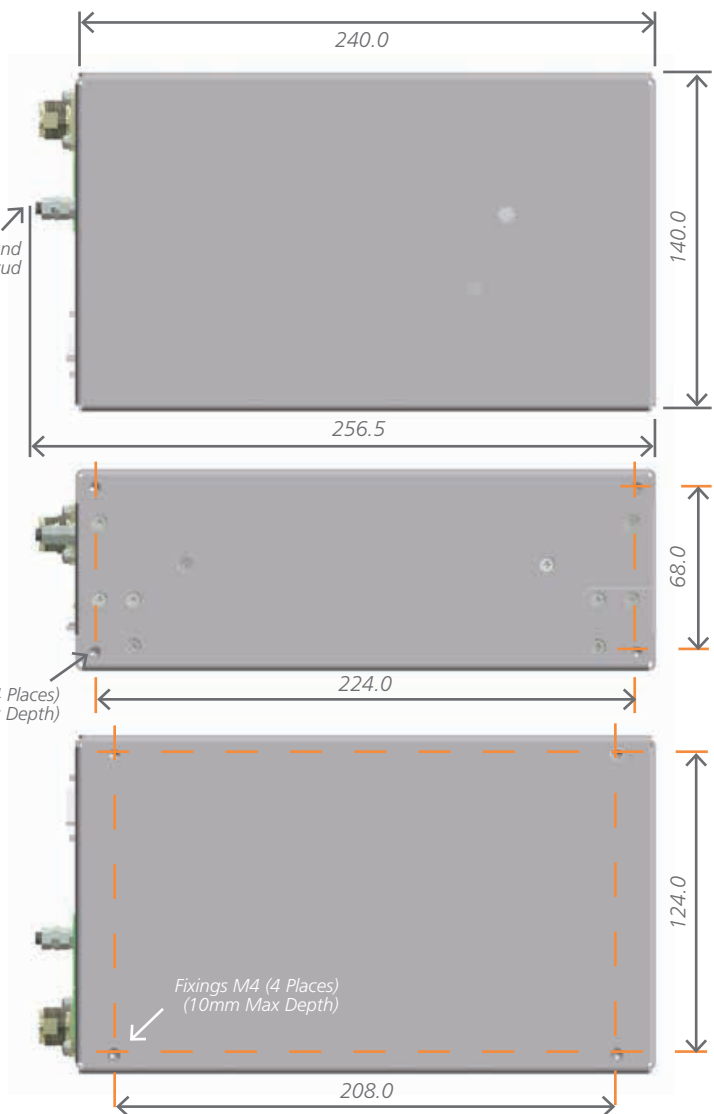
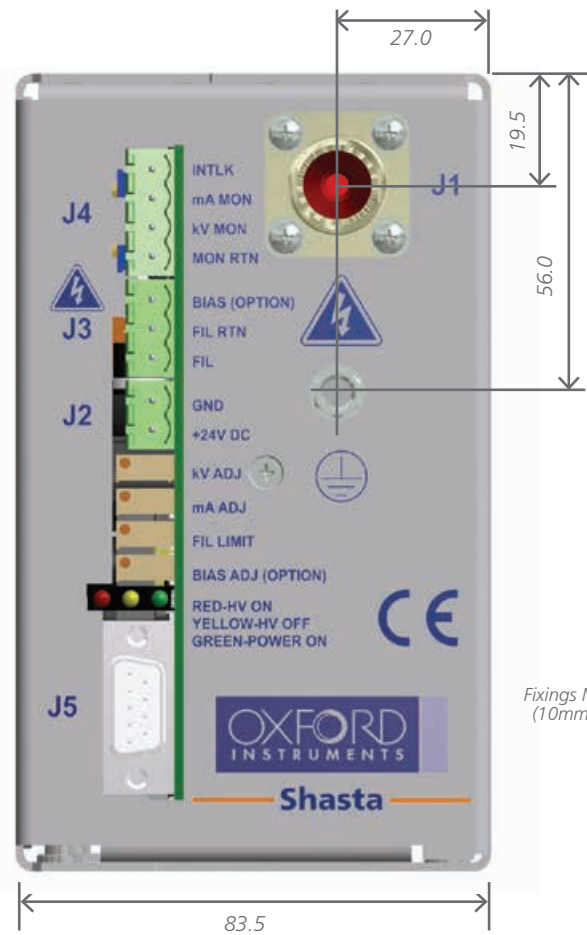
Applications

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



Specifications	
Operating voltage range:	0-50kV or 0-60kV models (see product ordering table next page)
Maximum Power:	50W or 60W models (see product ordering table next page)
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: < ± 2µA (Beam Current) Line: < ± 2µA (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 ± 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:	7.9 lbs. (3.6kg)
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.

Shasta 50kV & 60kV Power Supplies



Pin Assignments					
J1	HV	OUTPUT	J5	1	+10VDC
J2	1	+24VDC		2	N.C.
	2	GND		3	kV Prog Input
J3	1	FILAMENT		4	RMT/LCL kV Prog Selector
	2	FILAMENT RETURN (GND)		5	N.C.
	3	BIAS		6	mA Prog Input
J4	1	MONITOR RETURN (GND)		7	RMT/LCL mA Prog Selector
	2	kV MONITOR		8	N.C.
	3	mA MONITOR		9	GND
	4	INTLK			

Product Ordering Table			
Part Number	Voltage	Power	Grid Control
9700001	50kV	50W	N/A
9700002	50kV	50W	0 to -300V
9700003	60kV	60W	N/A
9700004	60kV	60W	0 to -300V

visit www.oxford-instruments.com/xt or xray-sales@oxinst.com for more information

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