

KIMTRON™

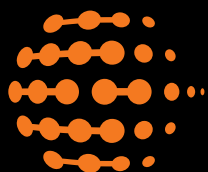
Kimtron™ Polaris® 500-UHP X-Ray Generator/High Voltage Power Supply



500-UHP

Features:

- X-ray Tube Arc Impervious: Withstands up to 10 arcs per second at full load.
- Active Filament Management: No filament current overshoot beyond tube limit or emission overshoot during rapid ramp-up.
- Filament friendly design: Will help to extend tube life.
- Solid State Filament Relay Circuitry: Eliminates mechanical contact failure.
- Ability to perform x-ray tube "re-conditioning": Clean-up gassy tubes in the field.
- Active Power Factor Correction (PFC) >98% @ full load.
- Fastest Rise time available: From zero to full power in 500ms – fastest on the market.
- Superior stability with lowest KV ripple on the market: 5 times better than competition.
- Ultra-sensitive stable MA: Regulation down to 100 micro amps.
- Standard open source machine-to-machine interface
- Complete stability throughout the entire kV range
- Drive any Industrial tube on the market: No EPROM change necessary.
- Lowest power consumption on the market: More efficient than competitive units.
- Our generators "plug & play" into many competitive system environments: Can operate with many existing controllers.



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Specifications:

Maximum Power	4500 W
kV Range	20 - 500kV
kV Accuracy	± 0.25% of Demand Value
kV Reproducibility	≤ 0.01% of Demand Value
High Voltage Ripple	< 0.05% RMS @ Full Load with 10M HV Cable
mA Range	0-30 mA
mA Accuracy	± 0.25% of Demand Value
mA Reproducibility	≤ 4 µA
Drive Frequency	Auto Variable 48Hz to 62 KHz
Rise Time	Zero to Full Load 500ms
Input Voltage	230V +10/-15% 47-63Hz (3 phase available)
Input Current	25A at full load
Power Factor	>0.98
Output Connector	R24
Dimensions Cathode	(W x H x D) 18" (457mm) x 30"??? with casters (762mm) x 33.5" (851mm)
Dimensions Anode	(W x H x D) 18" (457mm) x 30"??? with casters (762mm) x 33.5" (851mm)
Weight	1100 lbs (499kg) Combined
Temperature Induced Drift	30ppm/°C of Output Value
Storage Temperature	-40°C to +70°C
Operational Temperature	0°C to +40°C
Relative Humidity	95%
Duty Cycle	100%

* Denotes Height Without Casters - Casters add 3" to overall height



Made In America

ISO 9001

Industrial, Medical and Security X-Ray Products and Services

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