

KIMTRON™

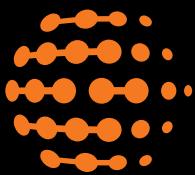
Kimtron™ Polaris. 500-UHP X-Ray Generator/High Voltage Power Supply



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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