

KIMTRON™

Custom High Voltage Power Supplies

Custom Designed Around
Your Specific Needs



20 kW & Beyond



Proudly Made In America

Special Use Application Series

ISO 9001

20kW and Beyond Custom Special Use Application High Voltage Power Supplies

Kimtron offers a wide array of choices in their Standard Series, but for customers looking for a unique custom solution, we've got you covered. We can custom design around your specific needs.

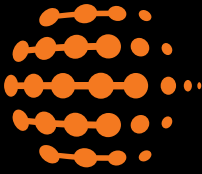
Features:

- 8-20kW standard. Higher power levels available upon request
- Based on Kimtron's patented HV Power supply modular building blocks
- X-ray tube Arc Impervious: Withstands >10 arcs per second at full load
- Active Filament Management: No filament current overshoot beyond tube limit or emission overshoot during rapid ramp-up
- Active Power Factor Correction (PFC) >98% @ full load
- Fastest Rise time available: From zero to full power in 500mS
- Superior stability with lowest KV ripple on the market
- Ultra-sensitive stable mA: Regulation down to 100 micro amps
- Standard, open source machine-to-machine interface
- Complete stability throughout the entire kV range
- (-) or (+) HV output
- 100% made in the USA

ISO 9001

Industrial, Medical and Security X-Ray Products and Services

KIMTRON.COM 203-262-3361 115 Hurley Road, Bldg. #6 Oxford, CT 06478



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20kW and Beyond Custom Special Use Application High Voltage Power Supplies

General Specification Range	General Performance Range
Maximum Power	From 8kW to 20kW+
kV Range	From 20kV to 500kV
mA Range	From 10 to 200 (typical)
kV Accuracy	± 0.25% of Demand Value
kV Reproducibility	≤0.01 % of Demand Value
High Voltage Ripple	2% RMS @ Full Load with 10 M HV Cable (typical)
mA Accuracy	± 0.25% of Demand Value
mA Reproducibility	≤ 10 µA
Drive Frequency	Auto Variable 48 kHz to 62 kHz (typical)
Rise Time	Zero to Full Load 200mS
Input Voltage	200 – 250 VAC
Power Factor	>0.98
Output Connector	Most standards available
Dimensions (W x H x D)	22.25 X 38.25 X 46.0 – W, D, H (typical)
Temperature Induced Drift	30 ppm/°C of output value
Storage Temperature	-40° C to + 70° C
Operational Temperature	0°C to + 50°C
Relative Humidity	95%
Duty Cycle	100%
Filament configuration	Single or dual - GND potential or HV potential
Filament voltage	9V @ 6A standard, other values available
Communications	Modbus (standard)
Country of origin	USA

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In 2015 Kimtron introduced the first High Voltage Power Supply (HVPS aka "X-ray generator") designed from a clean sheet of paper and employing state-of-the-art components, in over 30 years. The result was a family of HVPS's that are technically superior to all competitive offerings. Moreover, the modular approach to the design enables great flexibility when designing new, special purpose HVPS products, as standard 'building blocks' can be arranged and combined to create new, more powerful devices.

In 2018 the Company was commissioned to develop a line of products designed to "condition" as-new X-ray tubes, which is an electrically violent process requiring an extraordinarily robust HVPS. Having success with our first offering, the world's largest manufacturer of X-ray tubes standardized on Kimtron products (HVPS's and tube-coolers).

Reach out to us and let us know your specific needs and requirements.



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