

# HIGH VOLTAGE POWER SUPPLIES

MISSION-CRITICAL HIGH VOLTAGE SOLUTIONS  
FOR DEMANDING APPLICATIONS





# High Voltage Power Supplies

Precision high voltage solutions for a range of  
end-user and OEM applications

## Precision. Power. Performance.

Merging more than 30 years of precision power design with the high voltage expertise and technology of UltraVolt and HiTek Power, Advanced Energy® now provides a comprehensive portfolio of standard and custom high voltage components to precisely match system specifications and provide unparalleled energy quality.

Expertise

### Enhanced System Innovation

Through close customer collaboration, application insight, and superior power quality, AE enables you to push the boundaries of innovation and stay ahead of evolving market needs.

### Compelling Value

AE high voltage product flexibility, ease of integration, and world-class support provide significant value, improving system manufacturing and performance.

### Optimized System Performance

Reliable, accurate high voltage power delivery elevates the performance of your entire system. AE pairs industry-leading technology with unmatched application expertise to implement solutions optimized for the exacting requirements of a variety of industries, including semiconductor, analytical instruments, medical, industrial test and instrumentation, and aerospace/defense.

Applications

- Ion implantation
- Scanning electron microscopes
- Spectroscopy
- Mass spectrometry
- Ion beam systems
- Food inspection
- Flow Cytometry
- Process control X-ray
- Capillary Electrophoresis
- Industrial lasers
- Medical lasers
- Intense pulsed light
- Electron beam welding
- Industrial ink jet printing
- Process control
- Capacitive charging
- Medical devices
- Scientific instrumentation

### A Broad Portfolio of Standard and Custom High Voltage Solutions

Over 1,500 standard options with inherent flexibility and modularity, enabling engineers to precisely match their system specifications and creating infinite uses in high voltage applications:

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#### Standard, Configurable Modules

- 450+ applications, 80+ markets
- 1,500+ models: 55 platforms, 11,000 variations
- Exceptionally wide input and output operating ranges
- Products to 10 kW, paralleled to 100 kW
- Advanced arc handling
- RoHS compliance

#### Benefits

- Proven solutions, higher reliability
- Lower initial cost
- Excellent power quality
- Shorter lead times, faster integration
- Easy interfacing: digital ready or digital-equipped

Custom high voltage power supplies built to your specifications and optimized for your system through close collaboration with AE's design and application experts:

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#### Custom Models

- 100 V to 500 kV
- 1 W to 100 kW and beyond

#### Benefits

- Fast lead time
- Excellent power quality
- Optimized system performance
- Application expertise
- Design and integration support



## Development and Integration Support

Design and integration quality are paramount to optimum system performance. AE serves as a valuable extension of your engineering department through the planning, development, integration, and support stages.

- Fast prototyping / volume production
- Customization by high voltage design experts
- Flexible manufacturing for low and high volume
- Strategic supplier relationships
- Close customer collaboration

SCIENCE ► R&D ► PROOF-OF-CONCEPT ► PRE-PRODUCTION ► PRODUCTION

Engineer-to-engineer support through the entire development cycle

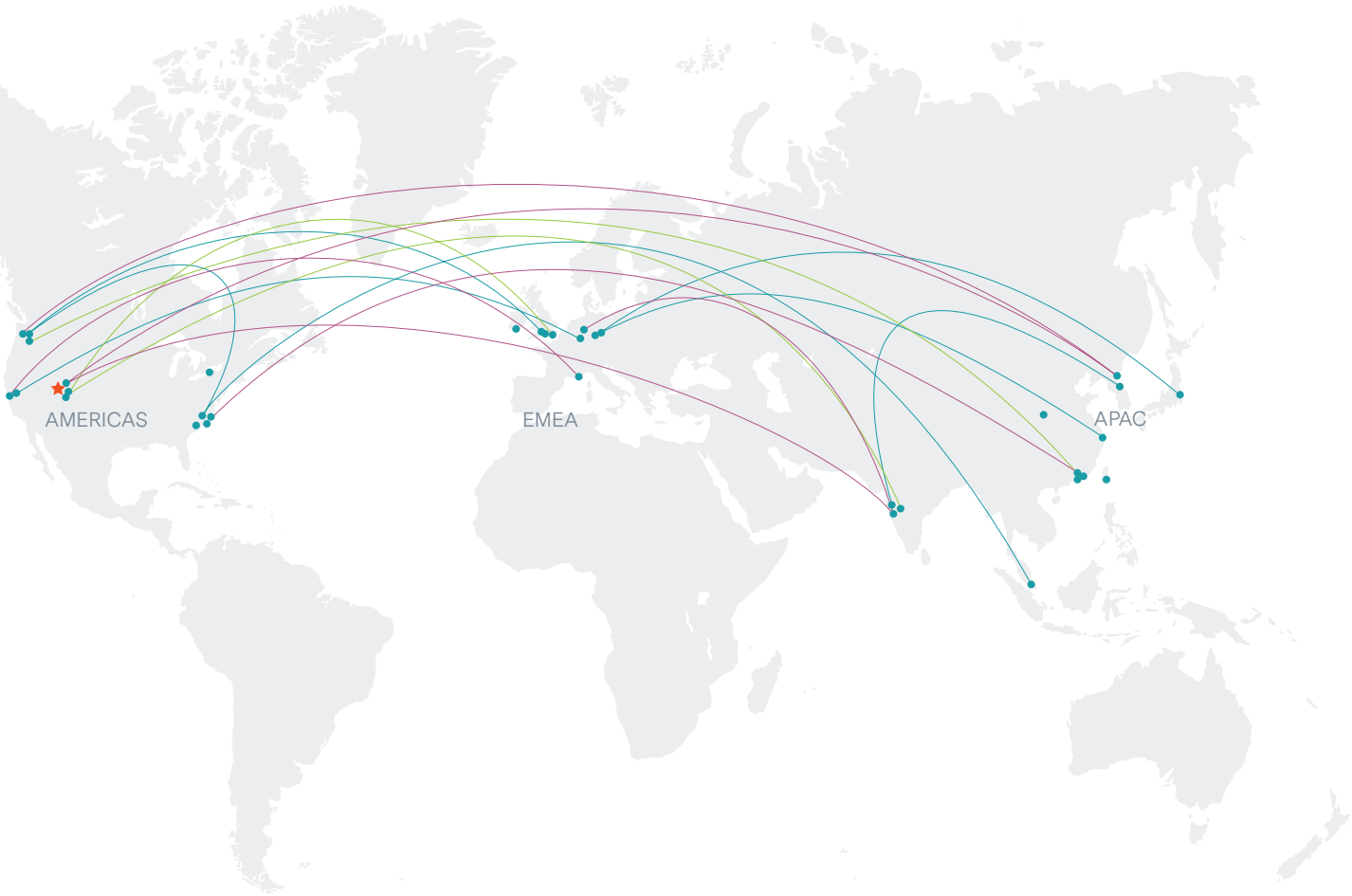
APPLICATION EXPERTISE ► SUPERIOR INTEGRATION ► OPTIMIZED SYSTEM PERFORMANCE

World-class expertise in a wide range of applications for superior integration



## Worldwide Support Network

From sites around the world, AE provides design, development, manufacturing, sales, applications expertise, and technical support. Our comprehensive network provides insight into your product, process, and application — easily accessible and highly responsive at a location near you.





For international contact information,  
visit [advanced-energy.com](http://advanced-energy.com)

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## ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

AE's power solutions enable customer innovation in complex semiconductor and industrial thin film plasma manufacturing processes, demanding high and low voltage applications, and temperature-critical thermal processes.

With deep applications know-how and responsive service and support across the globe, AE builds collaborative partnerships to meet rapid technological developments, propel growth for its customers and power the future of technology.

PRECISION | POWER | PERFORMANCE

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