

# KEPCO POWER SUPPLIES

Instrumentation, Fabrication and Process Power Supplies for the Microelectronics Industry



## High Performance power instruments and systems tailored to demanding Microelectronics Applications

Kepco has improved yields and throughput with power systems designed and built in the US for decades, from the first solid state transistor to today's quantum computers and high power AI platforms.

**Break bottlenecks in production test.** Kepco's fast multi-programmable bipolar power amplifiers are many times faster than legacy SMPS that often constrain the production of microelectronic devices. BOP's offer the fastest power for testing available. BOP's high bandwidth lets you source and sink high power with precision and speed, reducing test time. Multi-kilowatt BOP systems provide test solutions for devices like AI chips that require higher power.



Kepco's high voltage BHK and BOP-HV power supplies reduce test time for devices that require precise and repetitive power up to 2000 volts to meet safety test requirements.

**Improve uptime.** BOP's are designed and manufactured to support 24/7 production, and have a useful life measured in decades. Virtually no planned maintenance or calibration is required.



**Increase Yields.** Kepco's ATE linear power supplies deliver precise, clean, fast power to operate lasers, etching, magnets and precision plating allowing consistent, high quality manufacturing.

Multi-channels BOP systems are easy to integrate into your space with connectors, power and control interfaces, and cabinetry tailored to fit your production environment.



Kepco's innovative solutions include adaptations for use in reconfigurable cellular manufacturing, or preconfigured for plug-and-play.

Scan and find out how Kepco can provide power solutions to meet your needs. Don't see what you need? Call us. We have a huge set of solutions to fit your needs or we can create one. Connect with Kepco's Applications Engineers to tailor a solution for you.



[www.kepcopower.com](http://www.kepcopower.com)

## Fabrication Power Supplies

Bipolar / Unipolar, laser etching, beam steering, precision plating



### SERIES BOP High Power

**Bipolar power, d-c and a-c**

- Source & sink, 4 quadrant operation. 1-7.5Kw,  $\pm 0-300\text{Vdc}$
- Fast analog/digital programming.
- GL option for inductive loads 1-6Kw,  $\pm 0-10\text{Vdc}$  to  $\pm 0-100\text{Vdc}$
- Precision stabilization. 0.05% source, 0.1% load.
- Built-in arbitrary waveform generator.
- Green recuperative sinking.
- Multi-output - 1 to 12.

[www.kepcopower.com/bophi.htm](http://www.kepcopower.com/bophi.htm)



### SERIES BOP LINEAR

**Bipolar power, d-c and a-c**

**100W, 200W, 400W**

- Source & sink, 4 quadrant operation.
- Fast analog/digital programming.
- GPIB, Ethernet, USB Optional.
- Precision stabilization. 0.001% source, 0.002% load.
- Optional optimization for inductive (-L) and capacitive (-C) loads.
- Multi-output - 1 to 12.

[www.kepcopower.com/bop.htm](http://www.kepcopower.com/bop.htm)



### SERIES ATE

**Unipolar power, d-c and a-c**

**50W - 5000W**

- Conventional filtering or high speed mode (up to 1 volt per microsecond), user selectable.
- Precision stabilization. 0.001% source, 0.002% load.
- Ultra low noise.
- GPIB, Ethernet, USB Optional.
- Multi-output - 1 to 48.

[www.kepcopower.com/ate.htm](http://www.kepcopower.com/ate.htm)

**MADE IN NYC**



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## Device Automated Testing Power Supplies

Accurate, High Throughput Power Supplies



### Multi-output Bipolar Systems

- Eight 400W bipolar linear BOP power supplies. Units are preconfigured for current mode and independent operation.
- Four dual channel 200W/400W bipolar, linear BOP power supplies. Outputs can be configured for series, parallel or independent operation.
- Customizable to customer requirements

[www.kepcopower.com/custompa.htm](http://www.kepcopower.com/custompa.htm)



### SERIES MST

**d-c programmable system power**

**1800W/rack**

- Plug-in up to 9 units in 4U x 19" rack.
- GPIB, long range serial bus, VXI, Ethernet, USB.
- N+1 redundancy, hot swap capability.
- Precision stabilization 0.002% voltage, 0.02% current.
- Multi-output - 1 to 27.

[www.kepcopower.com/mst.htm](http://www.kepcopower.com/mst.htm)



### SERIES KLP

**voltage, current and power-limited operating boundaries**

**1200W - 2400W**

- GPIB, RS 232 & isolated analog control standard.
- LXI compliant.
- Ethernet, USB control optional.
- True 1U height - full power operation with no spacing between units.
- Multi-output - 1 to 12.

[www.kepcopower.com/klp.htm](http://www.kepcopower.com/klp.htm)



### SERIES BHK-MG

**Programmable high voltage power, d-c and a-c**

**40W - 1kW**

- Bidirectional power for fast, high voltage safety testing (Nemko, Demko)
- Sinking multiples throughput, reduced cycle time.
- Keyboard controlled, GPIB remote digital programming / fast analog programming.
- 0 - 300V, 0 - 500V, 0 - 1000V, 0 - 2000V.
- Precision stabilization: 0.005% voltage, 0.015% current.
- Multi-output - 1 to 12.

[www.kepcopower.com/bhkmg.htm](http://www.kepcopower.com/bhkmg.htm)



### SERIES EL

**d-c electronic loads**

**500W - 90kW**

- Complete turnkey systems.
- User configurable.
- Up to 600 Amperes/Module.
- Constant E, I, P, I/E, E/I.
- Air Cooled.
- Single & Multi-Channel Models.
- Up to 16 Channels.
- USB, Ethernet, GPIB.

[www.kepcopower.com/el.htm](http://www.kepcopower.com/el.htm)

## General Process Power - Semi F-47 compliant

Ultra Reliable, Fault Tolerant Power Supplies

### Ultra reliable, fault tolerant



### SERIES HSF

**d-c plug-in hot swappable power**

**50W - 1500W**

- Wide range a-c input with PFC.
- Built-in isolation diodes for hot swap.
- Current share for N+1 redundancy.
- Mount 4-8 abreast in 3U x 19" housing.
- Mount 4 abreast in 1U housing.
- Systems to 60kW, 6kW per drawer.

[www.kepcopower.com/hsf.htm](http://www.kepcopower.com/hsf.htm)



### SERIES HSP

**d-c plug-in hot swappable power**

**1000W - 1500W**

- Wide range a-c input (1000W models).
- Power Factor Correction.
- Current share for N+1 redundancy.
- Mount 3 abreast in 3U x 19" housing.
- Systems to 45kW, 4.5kW per drawer.

[www.kepcopower.com/hsp.htm](http://www.kepcopower.com/hsp.htm)

### Fixed and Programmable Process Power



### SERIES AE/AEK/HWS

**d-c modular power**

**300W - 3000W**

- 0 - 600V outputs.
- Zero up and I<sup>2</sup>C programming.
- Assembled to order; multi-output assemblies.
- DIN rail and customized mounting.

[www.kepcopower.com/hsp.htm](http://www.kepcopower.com/hsp.htm)



### SERIES RTW

**d-c modular power**

**50W - 300W**

- Wide range a-c input with active PFC.
- Low profile, optional cover factory installed.
- FCC Class B conducted and radiated emissions.
- Assembled to order; multi-output assemblies.
- DIN rail and customized mounting.
- 3.3V - 48V output.

[www.kepcopower.com/rtw.htm](http://www.kepcopower.com/rtw.htm)

### Explosive/harsh environments. Clean rooms



### SERIES KHx

**d-c modular power**

**50W - 30kW**

- Explosion-proof.
- Fault Tolerant, Redundant. Hot swappable.
- No system downtime for maintenance.
- Dusty, wet environments.

[www.kepcopower.com/khx.htm](http://www.kepcopower.com/khx.htm)

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