

KEPCO POWER SUPPLIES

AC-DC & AC-AC ATE Power Supplies and Electronic Loads for the Defense Needs



KEPCO, INC.
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High Performance power instruments and systems tailored to demanding Defense and Aerospace Applications

Kepeco has improved the speed, reliability and quality of LRU testing and systems availability of mission critical systems with power systems designed, built and supported in the USA for decades. From early radar systems to today's advanced communications and automated test systems (ATS), Kepeco's COTS and modified COTS power solutions help keep the world safe. Kepeco's standard, MIL-STD-461 compliant power supplies provide ultra low ripple power that allows rapid testing without noise to interfere with measurements.



Test Faster, Break LRU Testing Bottlenecks:

Kepeco's standard, MIL-STD-461 compliant power supplies provide fast, high precision, ultra low ripple power, allowing rapid testing without noise to interfere with measurements. Kepeco's fast, multi-programmable bipolar power amplifiers

are many times faster than legacy SMPS that often constrain the testing of DUT's. BOP's high bandwidth lets you source and sink high power with precision and speed, reducing test time. Kepeco's ATE and MAT series provide high speed, low noise unipolar power.

Deliver High Reliability. Kepeco's fault tolerant, redundant power systems run applications that need to operate 24/7, 365 days/year. With 99.9999%+ system availability, these systems run applications like secure satellite down links for data and voice. The ultra low noise configurations power clear voice communication for applications like air traffic control. The systems they power don't need to come down to allow maintenance of the power supplies because the power supplies are hot swappable. The N+1 architecture with active current share reduces the footprint of these solutions to little more than non-redundant supplies.



Support Legacy Systems - TPS Compatible, Plug Compatible Replacements: Kepeco's AC and DC power supplies and electronic loads provide solutions to extend the life of legacy defense systems. Kepeco's TPS and Plug Compatible power supplies provide turnkey, modern alternatives to obsolete and unmaintainable power supplies and loads. Supports CIIL, MATE and ABLE: no need to rewrite TPS's.

Multi-channel power solutions using COTS power supplies are easy to integrate into new or legacy applications. Kepeco delivers these systems configured to meet mission requirements. The system pictured at right meets MIL 28800 cargo bounce requirements and includes a custom PDU and runs off vehicle DC or generator AC power. It is MATE compatible and controlled using CIIL, ABLE and other GPIB based systems.



Kepeco's innovative solutions include systems like these portable, transit case mountable power supplies that provide multi output, programmable low voltage DC, high voltage DC and AC-AC power. The AC and DC channels are software configurable for parallel and multi-phase operation: MATE compatible, form, fit and function drop in replacements for legacy power supplies. NO REWIRING, NO TPS CHANGES. Kepeco power supplies allow control and monitoring of a huge variety of MATE compatible, modern power supplies to provide 20 Watts to 45kW, 0-6 to 0-5,000 Volts of unipolar and bipolar power, all from a single GPIB address.



www.kepcopower.com

ATS Power Supplies

Unipolar / Bipolar Power Supplies & Loads



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



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.
- MIL-STD-461 Compliant.

www.kepcopower.com/ate.htm



SERIES BOP High Power

Bipolar power, d-c and a-c

- Source & sink, 4 quadrant operation. 1-7.5Kw, $\pm 0-6Vdc$ to $\pm 0-300Vdc$
- Fast analog/digital programming.
- GL option for inductive loads 1-6Kw, $\pm 0-10Vdc$ to $\pm 0-100Vdc$
- 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

Legacy System Power Supplies

Plug Compatible, TPS Compatible, ABLE/CIL/MATE Compliant



SERIES MST-V, -H

dc programmable system power
1800W/rack

- 6600/66000VXP 3000 TPS/Plug compatible replacements.
- Plug-in up to 9 units in 4U x 19" rack.
- GPIB, VXI, MATE, CIL, ABLE.
- N+1 redundancy, hot swap capability.
- Precision stabilization 0.002% voltage, 0.02% current.
- Multi-output - 1 to 27.
- MIL-STD-461 control 20w to 5Kw.

www.kepcopower.com/mst.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.
- MIL-STD-461 Compliant.
- Calibrator replacement for precision guidance systems.

www.kepcopower.com/bop.htm



SERIES KLP

voltage, current and power-limited operating boundaries

- 1200W - 2400W @ 115V a-c
- VXP 3000 HVDCPS TPS/Plug compatible replacement
- GPIB, RS 232 & isolated analog control standard.
- Ethernet, USB control optional.
- MATE, CIL, ABLE
- Multi-output - 1 to 12

www.kepcopower.com/klp.htm



BOP-AC

1 to 4 kVA

- 1 \emptyset , 2 \emptyset , 3 \emptyset , programmable.
- 60-1,000 Hz.
- VXP 3000 AC TPS/Plug compatible replacement.
- GPIB, RS 232.
- MATE, CIL, ABLE.
- Multi-output - 1 to 4 per enclosure.
- Parallel operation - Programmable

www.kepcopower.com/1462000a.pdf



SERIES EL

d-c electronic loads, linear
500W - 90kW

- NH 4700/4300 replacement.
- Low noise, non-regenerative
- Complete turnkey systems.
- User configurable.
- Up to 600 Amperes/Module.
- Constant E, I, P, I/E, E/I.
- Air Cooled.
- Single & Multi-Channel Models.
- USB, Ethernet, GPIB.

www.kepcopower.com/el.htm

Embedded System Power Supplies

Ultra Reliable, Redundant, 28 Volts

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.
- 3.3 to 60V d-c, including 28V model
- Current share for N+1 redundancy.
- Systems to 60kW, 6kW per drawer.

www.kepcopower.com/hsf.htm



SERIES HSP

d-c plug-in hot swappable power
1000W - 1500W

- Wide range a-c input (1000W models).
- 3.3 to 125V d-c, including 28V model
- 99.9999% availability.
- Current share for N+1 redundancy.
- Systems to 45kW, 4.5kW per drawer.

www.kepcopower.com/hsp.htm

Fixed Programmable System Power Supplies



SERIES AE/AEK/HWS

d-c modular power
300W - 3000W

- 0 - 600V outputs, including 28V model.
- Zero up and I²C programming.
- Assembled to order, multi-output assemblies.
- DIN rail and customized mounting.

www.kepcopower.com/ae.htm



SERIES RTW

d-c modular power
50W - 300W

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

www.kepcopower.com/rtw.htm



Explosive/harsh environments



SERIES KHx

d-c modular power
50W - 30kW

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

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