

The Industry's **Most Flexible, High Performance, and Intelligent** Regenerative Series

Innovate the way you test, increase productivity, and reduce test schedules with Pacific Power Source's safe, flexible, scalable, and sustainable solutions.

Our regenerative series offer best in class performance, intelligence, and ease of use. These four-quadrant, multi-functional devices offer integrated AC & DC test capabilities and load options that can eliminate external equipment and simplify your test setup. Put your trust in the best solutions from the market leader.

Choose from two product families for each product category depending on your test requirements. Select based on power levels, voltage ranges, power density, and need for PHIL.

- **All-in1 Regenerative AC/DC Power Source**
AGX or AZX Series
- **Regenerative Grid Simulators**
RGS or GSZ Series
- **Regenerative Electronic Loads**
RLS or ELZ Series



Regenerative Power > 90%

Greater than 90% energy efficiency. Source and sink to emulate bidirectional power. Robust SiC technology, dynamic and efficient.



Constant Power, Extra Current

Seamless testing over a wide voltage range without power interruption. Extra current at lower voltage. Test a wide range of products.



Wide Frequency Range

Output frequency range from 15Hz to 1000Hz (std) or 3000Hz (option) provides flexibility to address different applications.



Modular and Scalable Power

Modular power up provides future-proofing. Upgrade modules later if needed.



Ultra Flexible Output Configuration

Simultaneous AC and DC operation per phase AND automatic switching of output modes provides extensive flexibility.



Programming Capability

Multiple control options, intuitive user interface, powerful waveform tools, and simplified set-up saves time.



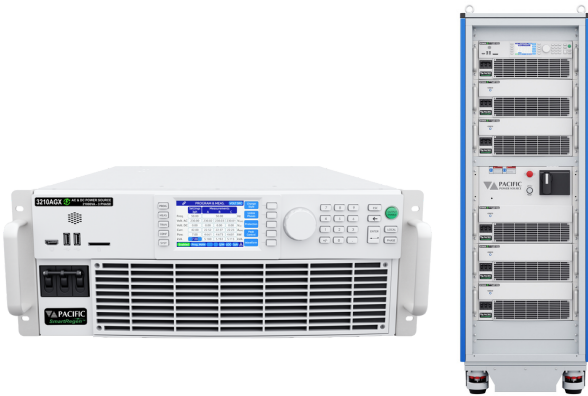
Smart Design & Safety

Built-in galvanic isolation and protection limits. Continuous self-calibration. Compact and mobile-friendly cabinets.



SmartSource Suite Control

Embedded web browser based remote control platform to easily create, modify, and run test programs.



6 to 756kVA / kW

up to 21kVA / kW in 4U Chassis

Single, Split, and Three-Phase

Parallel up to 189kVA/kW per cabinet

Dual cabinets up to 252kVA/kW

Three-Phase Systems up to 756kVA / kW

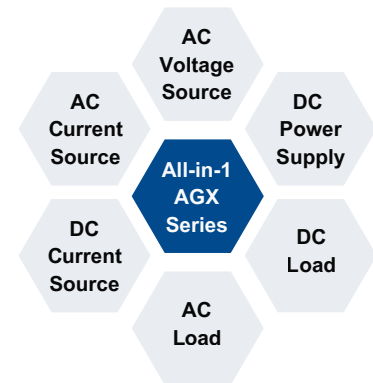
Constant Power Voltage Range:

350Vac L-N/606Vac L-L or $\pm 500\text{Vdc}$

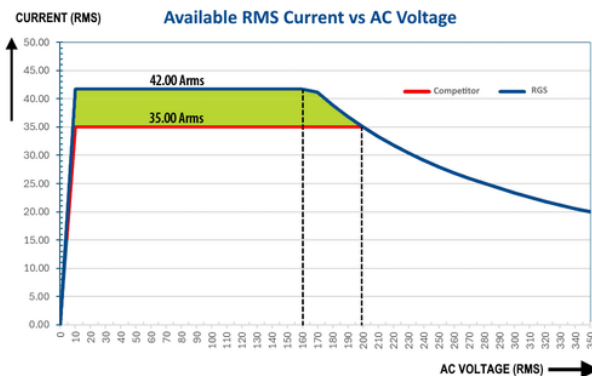
AGX Series High Power Density All-in-1 Highest Performance AC/DC Power Source

This 'All-in-One' 4-quadrant test solution can address a wide range of applications and markets. It can serve as a fully programmable AC/DC power source, current source, and load.

- High Frequency: 15-1200Hz; Extended Range 1-3000Hz
- AC, DC, AC+DC
- Current Source Mode, Load Mode included



All-in-1 AZX Series



More Current than Competitors

RGS Series 2-in-1 Grid Simulator & Load

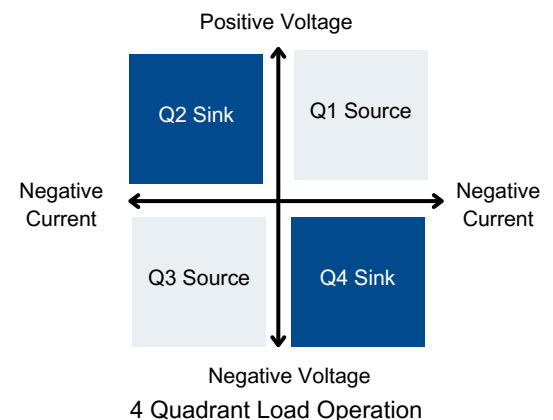
Designed for the testing and verification of all grid-tied applications. Test to regulatory compliance standards such as IEEE 1547, UL 1741, IEC 61000-3, IEC 61000-4, and more.

- Power level starts at 12kW
- 15-200Hz
- AC, DC (AC+DC Option)
- Inter-harmonics included
- Load Option

RLS Series AC & DC Electronic Load

High power 4-quadrant load capability to simulate any linear or non-linear loads. Several AC and DC emulation modes include Constant Current (CC), Constant Resistance (CR), Constant Power (CP).

- 15-1200Hz
- AC, DC
- Inter-harmonics Option





30 to 550kVA / kW

Single, Split, and Three-Phase

30, 45, 55kVA/kW per cabinet

Parallel up to 550kVA/kW;

Three-Phase Systems up to 1.1MVA / MW

Constant Power Dual Voltage Range:

0~240Vac L-N/0~415Vac L-L and 0~340Vdc

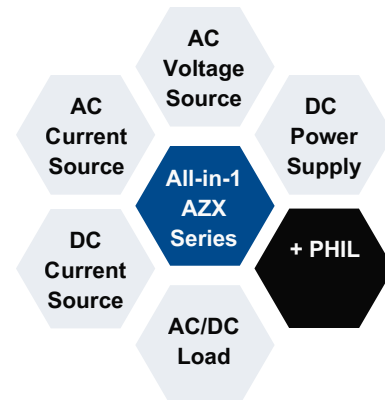
0~480Vac L-N/0~830Vac L-L and 0~680Vdc

(*Different for ELZ Series)

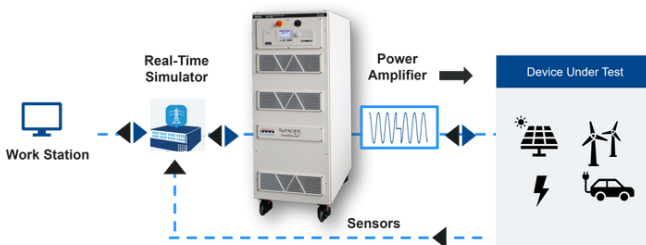
AZX Series All-in-1 AC & DC Power Source, Current Source, Load, + PHIL Included

This 'All-in-One' highest performance platform, is a 4-quadrant test solution that can address a wide range of applications and markets. It can serve as a fully programmable AC/DC power source, current source, load, and PHIL amplifier.

- High Frequency: 15-1000Hz; Extended Range 1-10,000Hz
- AC, DC, AC+DC
- Current Source Mode
- Load Mode
- Optimized for PHIL
- Inter-harmonics Option



All-in-1 AZX Series



PHIL Simulation Workflow

GSZ Series 2-in-1 Grid Simulator & Load

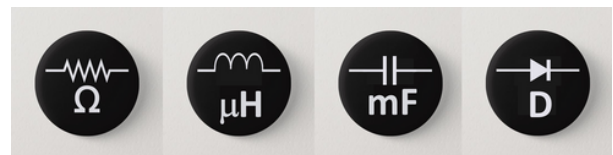
Designed for the testing and verification of all grid-tied applications. Test to regulatory compliance standards such as IEEE 1547, UL 1741, IEC 61000-3, IEC 61000-4, and more.

- 15-200Hz
- AC, DC (AC+DC Option)
- Inter-harmonics included
- Optimized for PHIL; Load Option

ELZ Series AC & DC Electronic Load

High power 4-quadrant load capability to simulate any linear or non-linear loads. Several AC and DC emulation modes include Constant Current (CC), Constant Resistance (CR), Constant Power (CP) AND Circuit Emulation (CE).

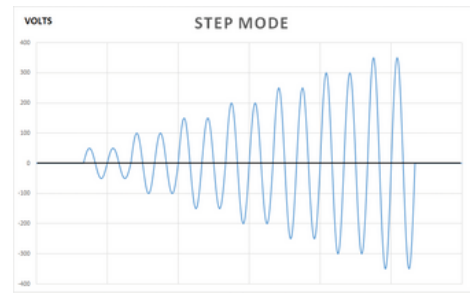
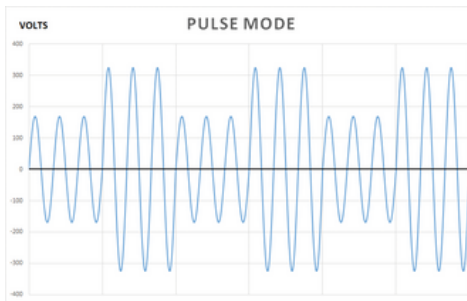
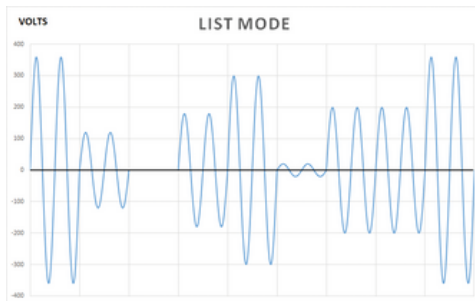
- 15-1000Hz; 1-10,000Hz Mode
- AC, DC
- Inter-harmonics Option
- Optimized for PHIL
- Includes Circuit Emulation Mode



ELZ 4 Quadrant Load includes CE Mode

This mode allows simulation of a wide range of Linear and Non-Linear Electrical Circuit Topologies.

Powerful Programming & Measurement Capability



- Precise Output Voltage and Load Regulation
- Metering of Volts, RMS Current, Peak Current, Apparent Power & True Power on All Phases
- Harmonic Measurements
- Built-in Scope and Digitizer
- Phase Angle, Output Transient Programming
- Sine, Square, Triangle, Clipped Sine,
- Over 200+ User-Defined Arbitrary Waveforms
- Programmable Output Impedance
- Pre-written test standard sequence options

Ultimate Flexibility with 6 Phase Configurations

Capability to operate in each phase as a different function: voltage source, current source, or load (option).

Multiple Output Modes (Input for Loads)

- FORM1 – Single Phase
- FORM2 – Split Phase
- FORM3 – Three Phase
- FORM4 – Two Independent Outputs
- FORM5 – Three Independent Outputs
- FORM6 – Split Phase + Single Phase Outputs

	FORM 1	FORM 2	FORM 3	FORM 4	FORM 5	FORM 6
Phase A				ONE PHASE A	ONE PHASE A	SPLIT PHASE
Phase B	ONE PHASE	SPLIT PHASE	THREE PHASE	ONE PHASE B	ONE PHASE B	
Phase C					ONE PHASE C	ONE PHASE C

Multiple Control Options

Easily control and operate our power units with intuitive, user-friendly control options.

- Touch-Screen Visual Panel
- Intuitive Menu and Soft-keys
- Shuttle Knob, Numeric Entry Pad
- LAN, GPIB, RS232 & USB Interfaces, CAN/CAN FD/ModBus, Analog Control
- **SmartSource Suite** – Embedded Web Server for Both LAN and USB Interface



SmartSource Suite on any web browser

Unit Dimensions: H x W x D

AGX / RGS / RLS Series: 7.0" x 17.0" x 25.0" / 178 x 432 x 635 mm

AZX / GSZ / ELZ Series : 59.8" x 24.0" x 31.9" 1520 x 610 x 810 mm



Founded in 1971, Pacific Power Source is an industry leading manufacturer of AC and DC power test solutions.

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