



Pacific Power Source Launches a New Regenerative Series of High Performing, Flexible, and Intelligent AC/DC Power Sources and Electronic Loads

Pacific Power Source's New Series (AGX, RGS, RLS) of Regenerative AC/DC Sources, Grid Simulators, and Loads emulate real world conditions for testing aerospace, power conversion, EV charging, and grid-tied systems.

Irvine, California, April 23, 2024

Pacific Power Source, a leading global provider of AC & DC power test solutions, announces its regenerative product line to support the growing demand in electrification including the: [All-in-1 AGX Regenerative AC/DC Source](#), [2-in-1 RGS Regenerative Grid Simulator](#), and [RLS Regenerative Load Simulator](#).



Figure 1 – AGX, RGS, and RLS Series provide high power density with 21kVA/kW in a single 4U chassis.

These bidirectional sources and loads emulate real-world power flows that are ideal for testing the utility grid, EV chargers, Vehicle-to-Grid (V2G), Vehicle-to-Home (V2H), Solar PV/grid-tied inverters, home energy storage systems, avionics power converters, UPS, PDUs, and more.

“Our new line of regenerative test solutions offers the highest level of flexibility, performance, and intelligence. These test systems integrate a high tech 4-Quadrant design in Silicon Carbide (SiC)-technology to support superior voltage range, current and power specifications to enhance performance. Compact, powerful, versatile, and easy to use, our mission is to innovate how you test with smart power to make it simpler, safer, more productive, and sustainable.” Herman Vaneijkelenburg, Director of Marketing.

The new SmartRegen® products have greater than 90% energy efficiency and a high-power density with up to 21kVA in a single 4U chassis, saving costs and space. Modular by design, these rackable series can scale up to 168kVA power in a single 19” cabinet and can be paralleled up to 252kVA to meet future requirements. The voltage ranges cover 350VLN / 606VLL in AC mode or ± 500 Vdc in DC Mode with exceptionally high AC current capability. The system’s fully galvanic-isolated and protection features protect the operator and UUT so users can test with confidence.

Simultaneous AC and DC operation of modes per phase, and the automatic switching of output modes provides test engineers with a unique capability and the highest degree of flexibility. Multiple, user-friendly control options provide the user with extensive control of AC and DC test parameters. Engineers and Researchers can select from a wide range of test sequences or easily create their own with built-in powerful custom waveform creation and measurement tools.

Additionally, Pacific Power Source's embedded proprietary **SmartSource Suite** remote control platform provides the most advanced real-time control and analysis on the market today. Fully develop and execute test sequences using the web browser interface reducing testing time.

This new level of performance, flexibility, and intelligence simplifies testing for the engineer, increases productivity, and reduces testing time.

- **[AGX Series Regenerative 4 Quadrant AC/DC Source:](#)** This 'All-in-One' test solution can address a wide range of test applications and markets. The multi-functional test system can be used as a fully programmable AC/DC power source, current source, and electronic load featuring AC, DC, and AC+DC output capability and an extended frequency range up to 3000Hz.
- **[RGS Series Regenerative Grid Simulator:](#)** This next generation '2-in-1' grid simulator is designed for the testing and verification of all grid-tied applications. Emulate almost any grid condition and test to regulatory compliance standards such as IEEE 1547, UL 1741, IEC 61000-3, IEC 61000-4, and more.
- **[RLS Series Regenerative Load Simulator:](#)** This Four-quadrant AC and DC electronic load is designed for testing any AC and DC load applications. The RLS features several AC and DC emulation modes and provides flexible configurations of single, split and 3-phase operation, and steady-state or transient execution.



Figure 2- Parallel units up to 168kVA/kW per cabinet and parallel dual cabinets up to 252kVA/kW.

Learn more about Pacific Power Source's [Regenerative AC/DC Sources and Loads](#).

Visit <http://www.pacificpower.com> or contact us at sales@pacificpower.com.

About Pacific Power Source, Inc.

Founded in 1971, Pacific Power Source (PPS) is an industry leading manufacturer of AC and DC power test solutions. Our reputation as a market and technology leader stems from our best-in-class products, commitment to R&D investments, and exceptional worldwide customer support.

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