

# Replace EOL NHR Systems with Pacific Power Source

## NHR 9410/9420 vs. PPS RGS Series Comparison



**57% Smaller in Rack Space**  
**75% More True Power**  
**~4X Power Density**  
**~300% More Power per kW**



### NHR 9410/9420

- Larger in size and weight / 9U
- Power Range Max at 96kW
- Lower Voltage Range
- Voltage starts at 10V to 17V, not 0
- Lower current availability
- 10 year+ old technology
- No Load Option
- Limited Support

### Pacific Power RGS Series

- Higher Power Density up to 21kVA / 4U
- Higher Power Range to 756 kVA/kW
- Higher DC Voltage up to 500V
- *Zero Voltage* Starting Range
- 2-in-1 Load Option
- ~40% Higher Current
- 2s Overload Capability
- Better Built-in Smart S/W Solution
- Firmware updates for latest enhancements
- Excellent, accessible support teams with NHR Experience

## Why Choose Pacific Power Source?



Aside from our high-performance solutions, our in-house engineering development and application teams have extensive, hands-on knowledge of NHR products. *You might even recognize some similar faces.* Save time and headaches. We have the know-how and solutions to help you transition seamlessly. Contact us, today.

### ADVANCED TECH

We invest in R&D and Innovation. to add customer value using the latest technology and approaches.

### FUTURE PROOFING

Our solutions are safe, reliable, and flexible. designed to evolve with technology.

### EXPERTISE

Unlike other vendors, our engineering and application teams are well-versed in NHR products. Help is within easy reach.

## Comparison of Banner Specs

\*Based on highest power configuration in single unit.

Key Features	NHR 9410/9420	Pacific Power RGS Series
Power Density	up to 12kW / 9U	<b>~4x Higher Power Density</b> up to 21kW / 4U
Voltage	10-175VLN / 17-303VLL; 10-350VLN / 17-606VLL	<b>Zero Starting Voltage</b> 0-350VLN / 0-606VLL (0-365VLN / 0-632VLL Option) Higher DC Voltage up to 500V
Current	3ø Mode: 30 Arms ; 1ø Mode: 90 Arms	<b>40% More Current</b> 3ø Mode: 42 Arms ; 1ø Mode: 126 Arms
Power	Parallel max up to 96kW	<b>Parallel max up to 252kW.</b> <b>Three-Phase Systems to 756kW</b>
Frequency	30-100 Hz (Option 880Hz)	<b>Higher Frequency</b> 15-200Hz (Option 15 to 1200Hz)
THD	<1% at 50/60Hz	<b>3X Lower Distortion</b> <0.3% at < 100Hz
Output Forms	<b>Multi-Channel Configuration</b> 6 (3 Phs, 1 Phs, 3x 1 Phs, 1 Phs, Split-Phs + 1 Phs, 2 x 1Phs + 1 Ph)	<b>Multi-Channel Configuration</b> 6 (1 Phs, Split-Phs, 3 Phs, 2 x 1 Phs, 3 x 1 Ph, Split-Phs + 1 Phs)
Digital/Analog I/O	LAN (SCPI Syntax)	<b>Several Interfaces:</b> LAN, GPIB, RS232 & USB Interfaces, CAN FD/ModBus, Analog Control
Software	Enerchron	<b>Better Software Capabilities</b> Built-In SmartSource Suite and Pre-Written Test Sequences.
Regulatory	None	<b>CE / NRTL Nemko US/Canada</b>

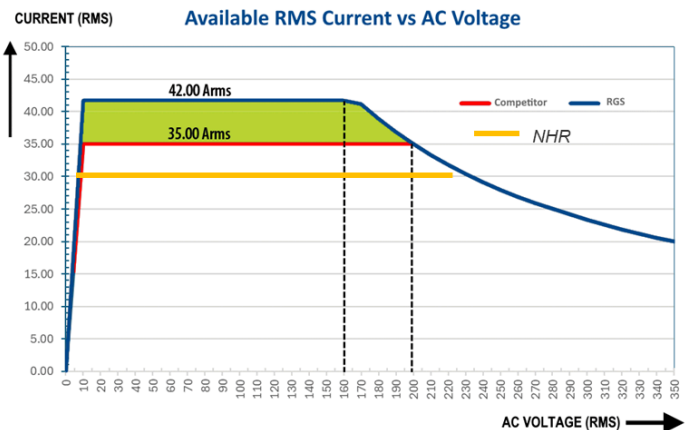


# Test Smarter with Pacific Power Source. Make the Switch.

## Highest Current on the Market

Provides more current from 120V to 200V (42A) compared to competitor (35A) per phase. 20% more current over competitors at lower voltage.

40% more current over NHR based on the highest power configuration in single building block. (12kW for NHR vs 21kW for PPS).



## 2s Overload Capability

Supplies 130% of rated current for 2s.  
No need to oversize equipment for short duration overload conditions

## High Power Density with 75% Increase in True Power per Unit. Modular, Scalable Power up to 756kW Systems.

\*Note: Green Boxes indicate the number of modules required to reach approximately the same power level.















NHR Limited power up to 96kW. This large cabinet is equivalent to only 5 x 4U RGS Series with Pacific Power Source.



Parallel up to 189kW per cabinet, or up to 256kW for two cabinets. Three-Phase systems up to 756kW.

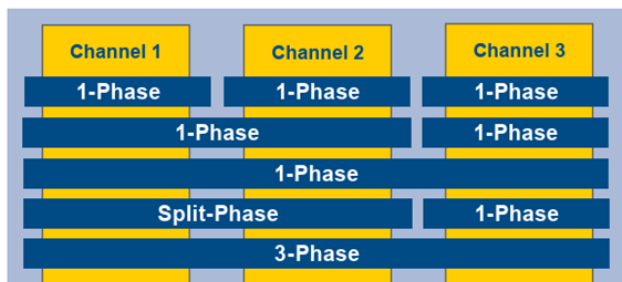
## 2-in-1 Grid Sim AND Load Option

The RGS Series offers a Load Option which eliminates the need for another instrument.

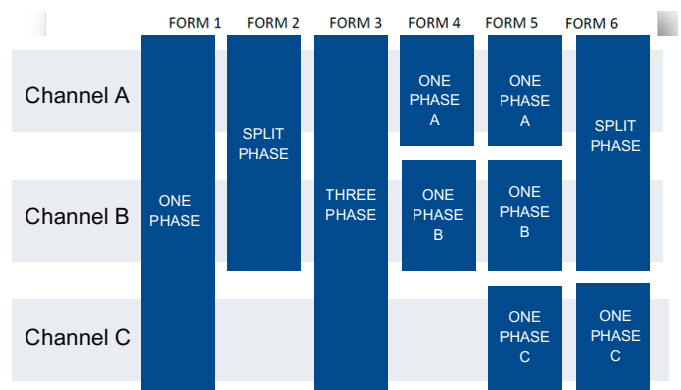
AC Load Modes				DC Load Modes	
	Constant Current (CC)		CR + CC		Constant Current (CC)
	Constant Power (CP)		CC / CS Rectifier 1 Phase		Constant Power (CP)
	Constant App Power (CS)		CC / CS Rectifier 3 Phase		Constant Resistance (CR) RMS or Instantaneous Mode
	Constant Resistance (CR) RMS or Instantaneous Mode				Constant Voltage (CV)
					CR + CC

## Flexible Multi-Channel Configurations

The RGS Series can operate in each phase as a different function: voltage source, current source, or load (option), providing the most similar configuration to NHR than other vendors on the market. The addition of the load mode offers even more flexibility.



NHR 9410 Configuration



PPS RGS Configuration

## Test Smarter with Built-In Smart Source Suite Software

Easily control and operate our power units with intuitive, user-friendly multiple control options and additional interfaces over NHR

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



SmartSource Suite on any web browser for enhanced visualization, built-in.

*Contact us to help you transition, now.*