

Replace EOL NHR Systems with Pacific Power Source

NHR 9430 vs. PPS RLS Series Comparison



NHR 9430

- Larger in size and weight / 9U
- Power Range Max at 96kW
- Lower current availability
- CC, CP, CR Modes only
- 10 year+ old technology
- Limited Support

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



Pacific Power RLS Series

- Higher Power Density up to 21kVA / 4U
- Higher Power Range to 756 kVA/kW
- Higher DC Voltage Range: 0 - ± 500 VDC
- ~40% Higher Current
- CC, CP, CR, CP+CR, CS Rectifier Modes
- 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

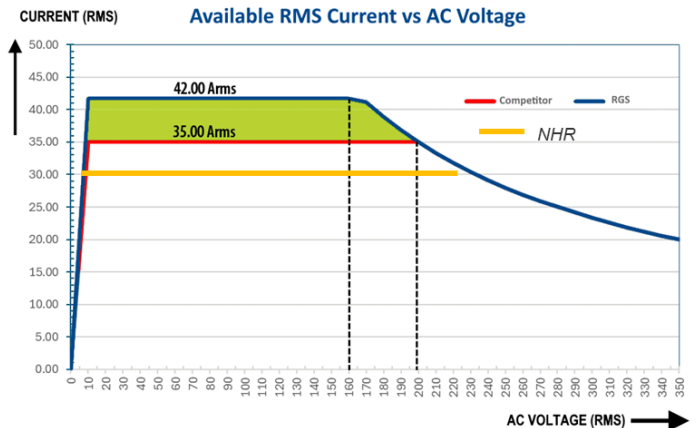
*Based on highest power configuration in single unit.

Key Features	NHR 9430	Pacific Power RLS Series
Power Density	up to 12kW / 9U	~4x Higher Power Density up to 21kW / 4U
Voltage	10-175VLN / 17-303VLL and 10-350VLN / 17-606VLL; 0 - ±500 VDC	30 - 350 VLN / 50 - 606 VLL; DC Range: 0 - ±500 VDC
Current	3ø Mode: 30 Arms ; 1ø Mode: 90 Arms	40% More Current 3ø Mode: 42 Arms ; 1ø Mode: 126 Arms
Power	Parallel max up to 96kW	Parallel max up to 252kW. Three-Phase Systems to 756kW
Frequency	30-100 Hz (Option 880Hz)	Higher Frequency 15-1200Hz
PF	PF -1 to 1	PF -1 to 1
Load Modes	CC, CP, CR	CC, CP, CR, CP+CR, CS Rectifier
Output Forms	Multi-Channel Configuration 6 (3 Phs, 1 Phs, 3x 1 Phs, 1 Phs, Split-Phs + 1 Phs, 2 x 1Phs + 1 Ph)	Multi-Channel Configuration 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)	Several Interfaces: LAN, GPIB, RS232 & USB Interfaces, CAN FD/ModBus, Analog Control
Software	Enerchron	Better Software Capabilities Built-In SmartSource Suite
Regulatory	None	CE / NRTL Nemko US/Canada

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).



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 96 kW. This large cabinet is equivalent to only 5 x 4U RLS Series with Pacific Power Source.















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

Several Load Modes

The RLS Series offers a several load modes.

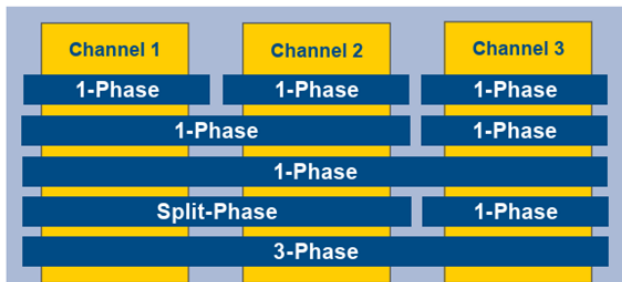
Note: ELZ Series has additional Circuit Emulation Mode.

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

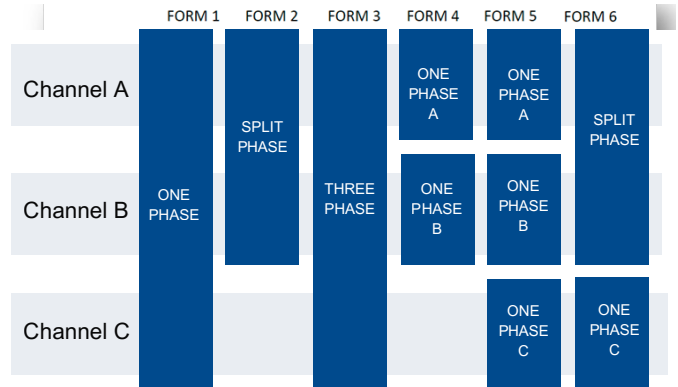
DC Load Modes	
	Constant Current (CC)
	Constant Power (CP)
	Constant Resistance (CR) RMS or Instantaneous Mode
	Constant Voltage (CV)
	CR + CC

Flexible Multi-Channel Configurations

The RLS 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.



NHR 9430 Configuration



PPS RLS 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.

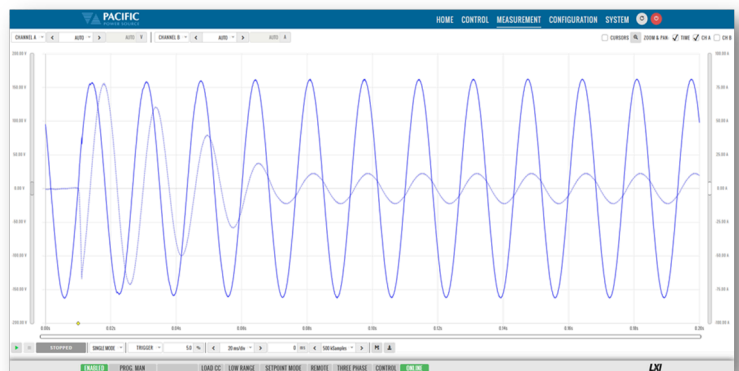
- Touch-Screen Visual Panel
- Intuitive Menu and Soft-keys
- Shuttle Knob, Numeric Entry Pad
- LAN, GPIB, RS232 & USB Interfaces, CAN FD/ModBus, Analog Control
- **Built-In SmartSource Suite** – Embedded Web Server for Both LAN and USB Interface



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

Easily Simulate Any Load

Simulate any AC or DC linear, non-linear loads with several emulation modes and the highest degree of flexibility. Right-sized power; scale power later as needed.



Inductive Load Waveform on web browser

Contact us to help you transition, now.