



Integrated Cabinet Power System

Why rack and stack yourself?
Go from instrument to solution with our purpose-built, fully integrated cabinet system.



A Complete Power System – Not Just a Cabinet.

Unlike generic enclosures, our integrated design includes all the power distribution, protection, and control elements required for safe, dependable operation and future expandability.

Engineered Cabinet Integration for Safe, Reliable, and Effective Use

Pacific Power Source’s Integrated Cabinet System transforms our AC Power Sources, Grid Simulators, and Loads into a complete turnkey system. **Applies to AGX, RGS, RLS, AFX, ADF Series.**

Designed, assembled, and tested for performance, safety, and scalability.

Innovate the way you test.



True Integration - Not Assembly

Integrated design means less cabling, simpler installation, and quicker time to test



Time & Cost Efficiency

Delivered as a pre-engineered system, saves days or weeks of setup time.



Designed for Flexibility

Configurable for single, split, or three-phase apps. Neutral shorting bar for isolated neutrals.



Scalable for the Future

expand as test requirements evolve — with minimal reconfiguration or wiring changes.



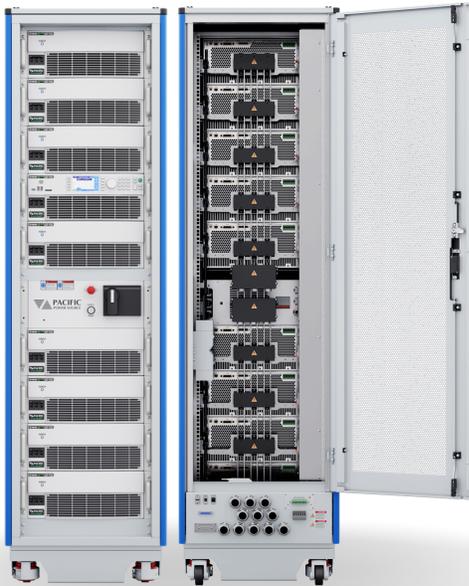
Built-In Safety and Reliability

Integrated EPO, individual unit circuit breaker protection and safety provide peace of mind.



Supported by Expertise

Expert integration, ensuring your test setup is safe, compliant, and reliable.



One Integrated Power System

Comprehensive Power Distribution System

Simplify power management with a single mains distribution system that connects individual unit PDUs—simple set-up, reliable, and easy to operate.

True Integration, Not Assembly

We provide engineered busbars, precision wiring, and optimized layout for lowest inductance and clean, organized power routing, with required SAFETY protections in place.

This reduces noise, miswiring risk, and setup errors — ensuring safe, repeatable, high-performance results.

Factory tested and verified for peace of mind.

We manage the cabinet integration so you can focus on test.

Protected Circuitry



Integrated Bus Bars

Air-Ventilated Doors



Single-Point Mains Input Terminals

Ready for Testing

Robust Construction

Industrial cabinet with heavy duty reinforced railbars to support weight.

Integrated Power Distribution

EPO, mains input switch, and quick disconnects for each module.

Low Impedance Output Power Copper Busbar System

Convenient load connection terminals and cable strain reliefs near rear bottom.

AC Mains Input & Distribution

The cabinet connects directly to the mains via terminal block TB1, with power routed through an integrated distribution system and main disconnect switch for complete system shutdown.

Mains Breaker Protections

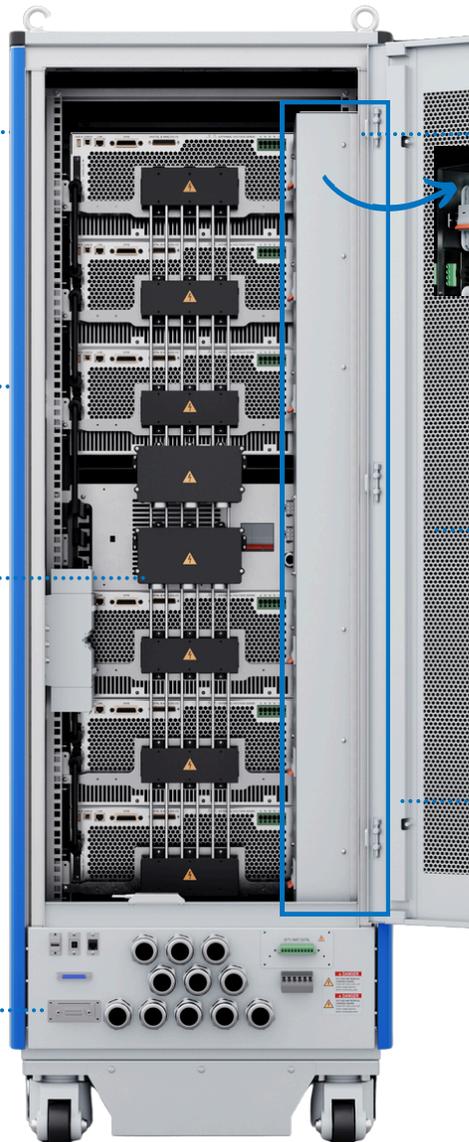
Rear Vertical Busbar links the Mains power to each unit through plug-in circuit breakers for fast, secure connections. These are located between the busbar module and the rear panel of each 4U power unit.

Air Ventilation

Air flow moves from front to back through the screen door to allow for cooling

Built-In Safety Relays & Protections

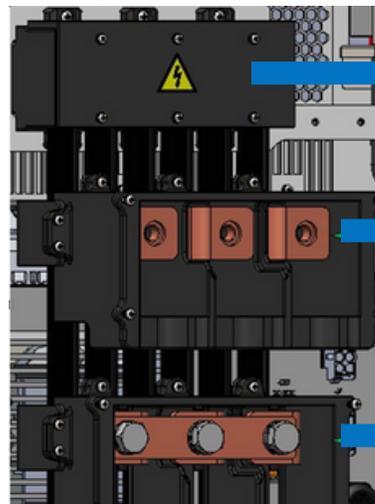
Monitors key interlocks—including the front Emergency Stop, rear door switch, and remote stop connector—to ensure safe operation.



Ultimate Flexible Configuration

Isolated Neutrals Bar

The neutral shorting bar is configurable at the system level. No need to remove or rewire individual module neutral connections. This design allows easy switching between common and isolated neutrals. Using the shorting bus bar across the three output phases eases configuring the cabinet for single-phase operations.



Unit Output Connectors

System Phases Outputs

System Neutrals Outputs



Scalable, Plug-and-Play Expansion.

Modular and scalable configuration to suit your future test requirements. Pre-wired rack positions let you simply slide in additional Power Modules—no rewiring required—for seamless, parallel power expansion.

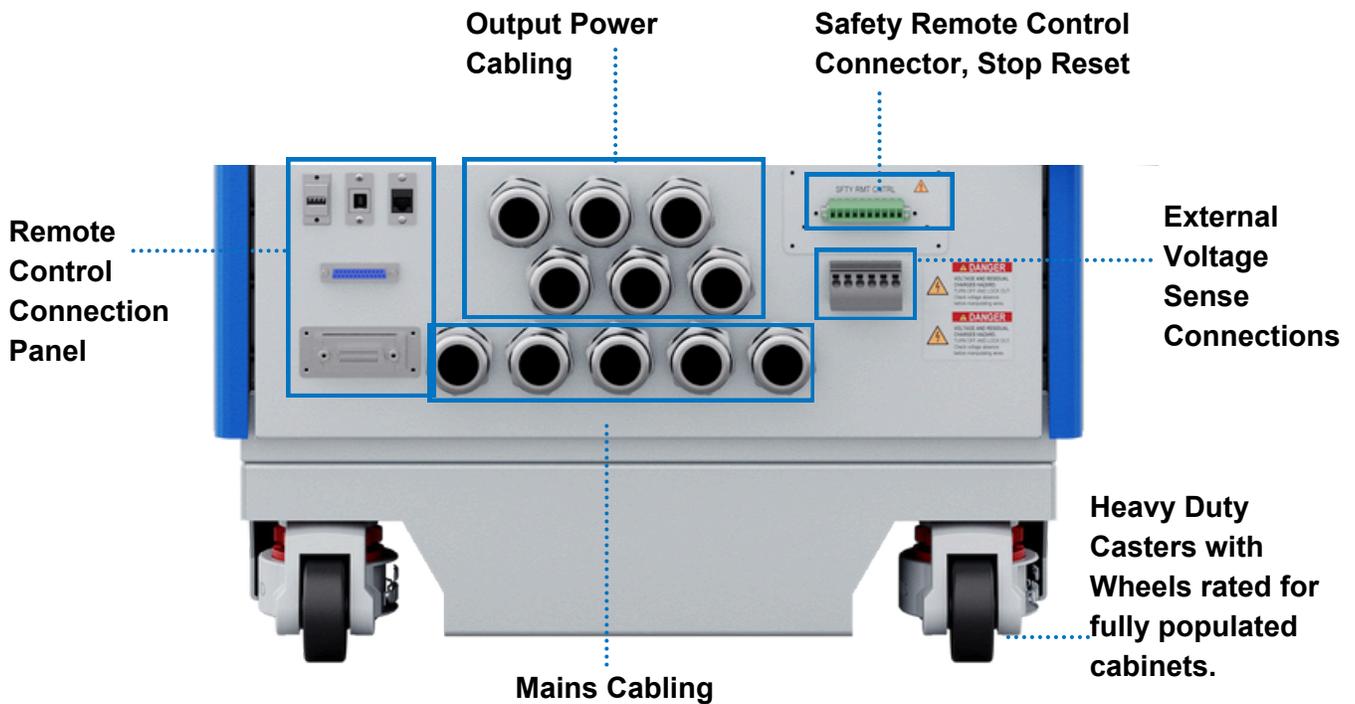
Modular set-up makes it easy for maintenance and reduces downtime.

Streamlined Control

Front panel has power on/off modes, emergency stop and fault resets to control power at an integrated system level.



Front Panel



Cabinet Specifications

Key Features

- **Heavy-Duty Construction** – Reinforced rails, lifting eyes, and heavy-duty locking casters rated for fully populated cabinets.
- **Forklift & Mobility Access** – Removable lower vanity panels allow easy transport and positioning.
- **Single-Point Mains Input Terminal** – Simplifies setup with built-in circuit breaker isolation for each module with main disconnect switch for system shutdown.
- **Integrated Power Distribution** – EPO, mains input switch, and quick disconnects for each module.
- **Safety Built-In** – Door safety switches and IP20-rated industrial enclosures protect operator.
- **Multi-Function Output Capability** – Separate output phase and neutral connections for 1-, 2-, or 3-phase AC and DC operation.
- **Parallel Operation** – Two or more programmable power sources can be paralleled using integrated bus bars with slide-in compression connections.
- **Flexible Output Modes** – Supports AC, DC, and electronic load configurations.
- **Easy Serviceability** – Power modules can be installed or removed without rewiring.
- **Future Expandability** – Configure for maximum capacity and add units over time.
- **Remote Control Ready** – Full control and metering via digital and analog I/O interfaces. USB, RS-232, LAN, AUX I/O, GPIB
- **External Voltage Sense & Auxiliary I/O** – Rear panel connections for precision control and monitoring.
- **Accessible Rear Door** – Safety-interlocked for maintenance and inspection access.



Standard Cabinet Sizes

Select from 3 standard-depth cabinets that are right-sized and mobile-friendly. Unused positions are filled with blank panels when fewer than the maximum number of modules are installed. Parallel up to 2 cabinets, maximum power varies by product series. Air flows front-to-back through the cabinet. Maintain at least 3 ft (1 m) of clearance at both the front and rear for proper airflow. * Please check door height for 42U.

Inside 19" Rack Height	4U Max	Max Power Cabinets are Designed to Hold	Dimensions W x D x H
18U	3	72kVA	23.6" x 42.5" x 47"
32U	6	144kVA	23.6" x 42.5" x 70"
42U*	9	216kVA	23.6" x 42.5" x 84"

Supported Products:

AGX, RGS, RLS, AFX, ADF Series