



*DRIVEN BY MOTION*

**ACTIVE POWER**<sup>®</sup>

A Division of Piller Power Systems Inc.

**POWERHOUSE**<sup>™</sup>



THE INDUSTRY'S MOST COMPLETE MODULAR POWER SYSTEM

# POWERHOUSE™ MODULAR POWER SYSTEM

Data center construction costs too much, takes too long, and incurs too much risk. Modular infrastructure backed by software intelligence is the key to solving these problems. PowerHouse is a factory-built and tested electrical system designed for low cost, rapid deployment, and superior management capability.



## intelligently EFFICIENT

- Available virtually off the shelf
- Optimized design minimizes energy losses
- Scalable design allows you to grow your infrastructure as needed



## inherently RELIABLE

- Integrated software provides complete visibility and control
- Proven less likely to fail than traditional systems with batteries
- Factory construction, integration, and testing reduces complexity, eliminates errors, and improves reliability



## economically GREEN

- Up to 25% first cost savings vs. traditional electrical room
- 75% reduction in carbon footprint vs. batteries

## KEY FEATURES

- *No-break (UPS-backed) critical output*
- *Customer-configurable short-break (generator-backed) outputs*
- *Purpose built NEMA 3R enclosure*
- *25 lbs/sq.ft snow load*
- *90 mph wind load*
- *Top and bottom cable entry*
- *PowerHouse OS analytics software*
- *Touch-screen system status and controls panel*
- *Unified Modbus telemetry output*
- *Fire detection*
- *High efficiency, redundant HVAC*
- *UL field label (option)*
- *Optional diesel generator (separate enclosure)*

## SERVICE & MAINTENANCE

Active Power offers multiple PowerService maintenance plans, providing complete lifecycle support by our team of certified Active Power service technicians. Plans range from basic recommended scheduled maintenance and support, to priority dispatch and on-site parts, allowing you to tailor a maintenance program to your needs.



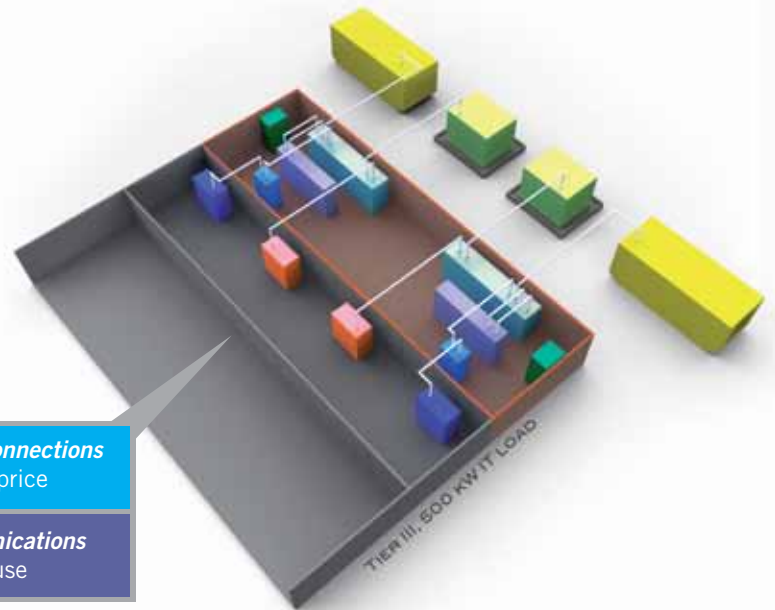
## CUSTOMER FOCUSED PROJECT MANAGEMENT

Active Power provides a single point of accountability for all PowerHouse deployments, from design through system commissioning. Experienced engineers and project managers will work with you to develop and implement a solution that best meets your project requirements. Active Power provides expert assessment, design, implementation, project management, maintenance, and support during every phase of your critical power system project.



## LESS COST

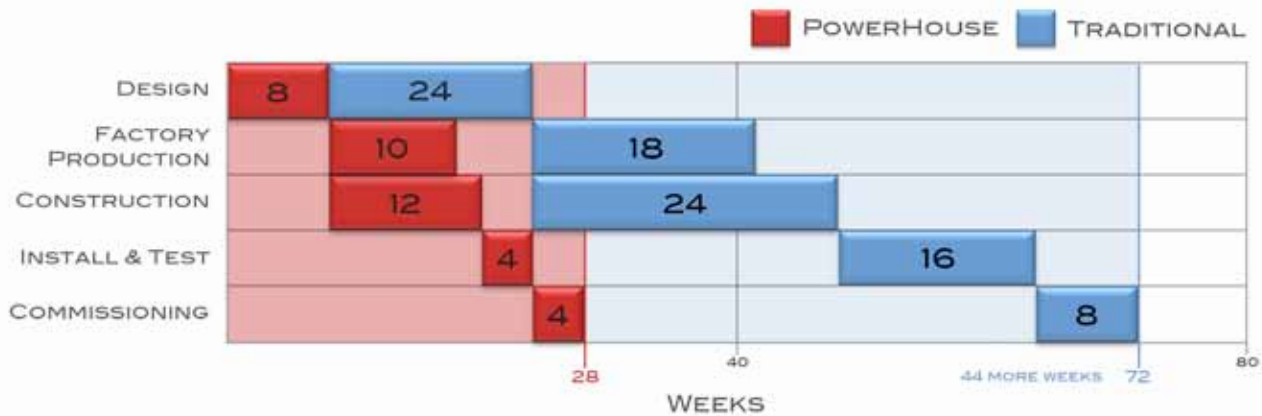
Deploying a PowerHouse system can save as much as 25% on capital expenditures compared to conventional brick-and-mortar construction. Factory engineering, assembly, and testing of PowerHouse lowers your overall project cost by reducing expensive field wiring, project management, and real estate costs.



<b>Room prep and air handling</b> Included in PowerHouse price	<b>UPS/switchboard/MBP connections</b> Included in PowerHouse price
<b>Land, design, and construction</b> Not needed with PowerHouse	<b>Install, test, and communications</b> Simplified with PowerHouse

## LESS TIME

PowerHouse systems are available virtually off the shelf - in as little as 10 weeks from order. They are already designed, engineered, and tested, meaning we can start building yours, while you're preparing your site. And PowerHouse arrives fully assembled and factory tested, dramatically reducing the amount of integration, testing, and commissioning work required on site. All told, PowerHouse can cut the total amount of time needed to build your electrical plant by about 60% - from well over a year to 30 weeks or fewer.



## TOTAL CONTROL

Active Power unifies the key components of PowerHouse through the Smart Display, a brilliant touch-screen panel that puts real-time telemetry and control of your entire system literally at your fingertips. PowerHouse also unifies Modbus telemetry for the system into a single feed to your BMS, simplifying and speeding integration with the rest of your operation.



# POWERHOUSE™ ARCHITECTURE

## ENCLOSURE

Purpose built, NEMA 3R structure that contains the system in the smallest and most efficient footprint possible, while adhering to applicable electrical and environmental standards. Integrates solutions for fire detection, lighting, security, and air conditioning.

## INPUT/OUTPUT MODULE

Complete input, output, and UPS maintenance bypass system in a compact package.

- Input breaker pair and transfer control system
- Top or bottom cable entry and exit
- Customer configurable output breaker options

## CLEANSOURCE® UPS

The most advanced backup power and power conditioning performance available in the smallest footprint. Ideally suited for PowerHouse due to its high efficiency and battery-free design.

## MONITORING & CONTROL

Centralized, integrated approach for monitoring and controlling your system from inside the enclosure or your desk. PowerHouse collects thousands of telemetry points from all elements, providing visibility and control via a full-color touch-screen Smart Display, a unified Modbus feed to your building management system, and historical data and analytical tools through the PowerHouse OS.



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