

The Power of One.



PowerCommand® On-Site Power Generation Systems

PowerCommand[®]

One Company. One Network. One Answer For Standby Power.

This is the system that does it all. With pre-integrated equipment that reduces the complexities of system design and installation. Smart microprocessing that gives the system unprecedented power to monitor itself. And interoperability that provides the flexibility of integrating standby power with a building automation system. If you're looking for the breakthrough system with all kinds of power, this is the one.

Pre-integrated Power.

The new standard for simplicity and performance.

The PowerCommand system from Cummins Power Generation is much more than the combination of a good engine, alternator, controls and transfer switches. It's a new way to be sure that the equipment in that power system works together right from the start.

PowerCommand's pre-integrated design offers advantages for building owners, facility managers, consulting-specifying engineers and electrical contractors. That's because it is the first power system from a single source that pre-integrates all of this key microprocessor-based power system equipment:

- * 35 kW to 2 MW generator sets
- * PowerCommand automatic transfer switches, bypass isolation switches and related switchgear
- * Paralleling load transfer equipment
- * Digital paralleling equipment

Besides designing and producing this equipment to interact seamlessly, we build more features and functionality into it. Then we test the entire system. This pre-integration can save significant time, labor and dollars by:

- * Streamlining specification
- * Simplifying installation and commissioning
- * Improving performance and reliability
- * Reducing installation, operating and maintenance costs



Smart Power.

A standby system that doesn't spend 99% of the time just standing by.

Microprocessor controls built into the PowerCommand system take it far beyond traditional standby systems. These controls allow the genset and transfer switch to offer "smart" functionality – accessing critical performance data and communicating that data to each other as well as to other building management systems. The controls run continuously, not just on demand, which means PowerCommand can:

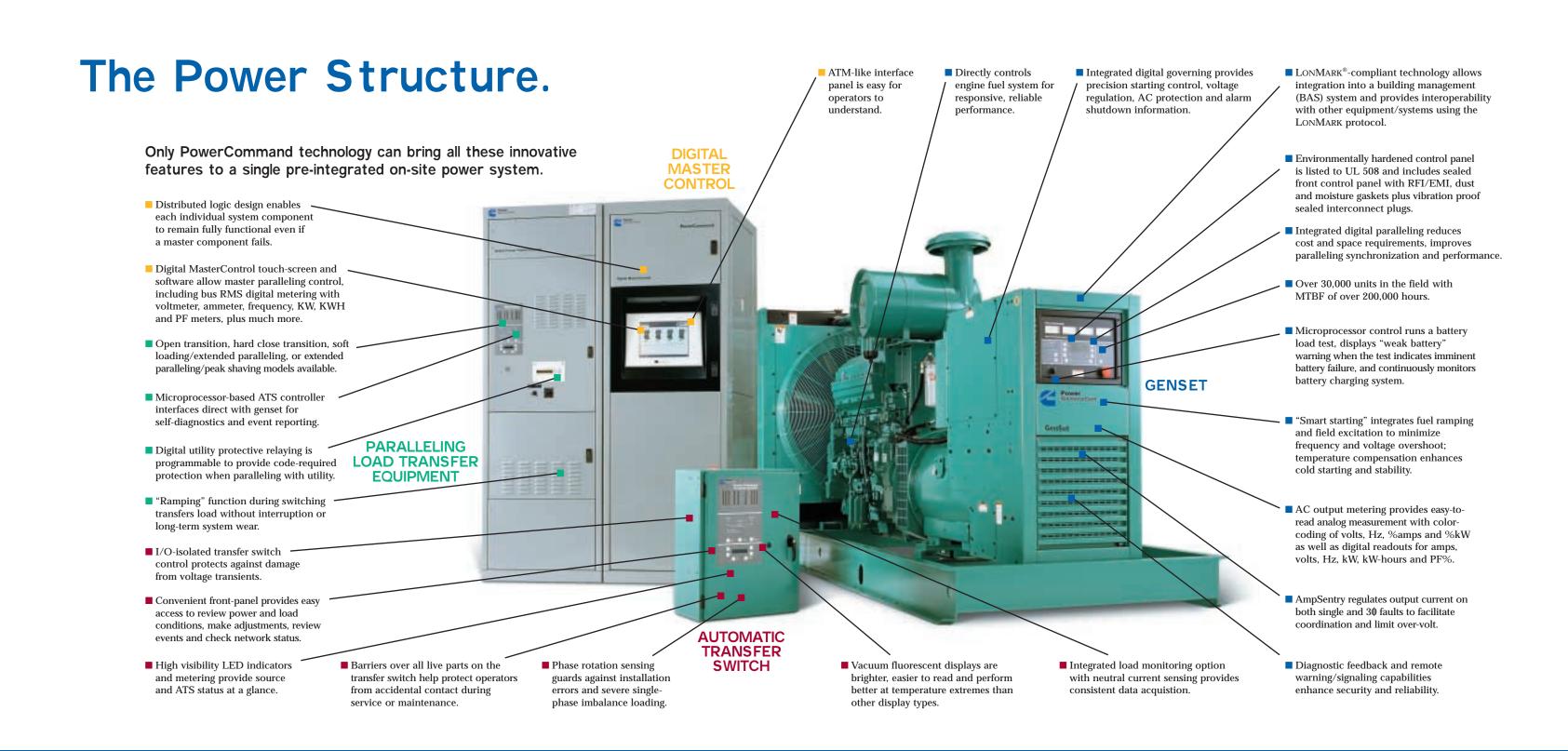


- * Detect failures even when not in use
- * Diagnose network failures
- * Provide redundant signals
- * Enable peer-to-peer communication between any node on the network

Without the expense and complexity of add-on components, the PowerCommand system can remote-sense, monitor, control and store data from up to 150 nodes. Control capabilities include diagnostics, testing, feedback functions and corrective actions for enhancing system reliability and maximizing building operations. Specifically, PowerCommand can:

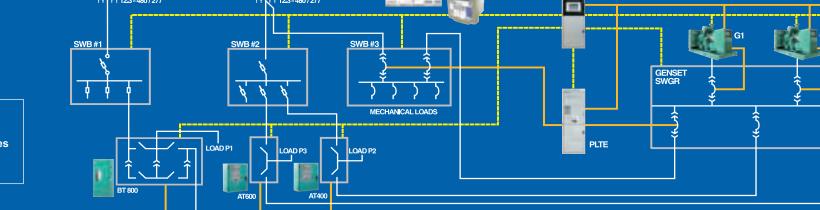
- * Facilitate paralleling and networking applications, including integration with any open system network
- * Deliver alarm and signaling capabilities to remote microprocessors in the network
- * Eliminate single points of power system failure through distributed logic design
- * Predict and help avoid genset failure by monitoring the genset starting system
- * Regulate output current (through the unique AmpSentry[™] feature) to facilitate coordination and limit over-volt
- * Minimize frequency, voltage overshoot on start and load changes, and black smoke – through integrated fuel ramping and field excitation
- * Prevent pre-mature system failures during load transfers — through programmed transition during switching of inductive loads

Another key PowerCommand advantage is that digital paralleling is an integrated function of the genset. No add-on relays, controls and hardware mean increased paralleling reliability without the cost and space requirements of added equipment.



MASTER





LEGEND: Network / SCADA wires **Control wires**





The Power of One.

Interoperable Structure.

Integrates your standby power into your building automation system (BAS).

Traditionally, standby power systems have been stand-alone systems. But Cummins Power Generation designs and builds its PowerCommand gensets and transfer switches to meet LONMARK[™] specifications for open systems interoperability. As a result, you can easily integrate the PowerCommand system into any LONWORKS[®]-based building automation system, or interface it with other open systems protocols.

BAS integration delivers several advantages:

- * Provides the flexibility of centralized and/or local system feedback
- * Eliminates the need for expensive or unreliable bridging interfaces
- * Enhances monitoring and control functions

With open systems compliance, your BAS can provide the additional advantages of an open, interoperable system:

- * A choice of suppliers
- * Easy, cost-effective additions and upgrades
- * Reduced installation costs

Cummins Power Generation further enhances BAS or industrial control network integration through marketing alliances with other leading building automation hardware and software companies that also adhere to accepted open systems protocols. By sharing technological expertise with these companies, we have increased the reliability, flexibility, comprehensiveness and interoperability of the PowerCommand system, and we have made it operate successfully with most other systems.

More Power To You.

Cummins Power Generation is a world leader in the design and manufacture of power generation equipment, including PowerCommand standby and prime power systems. We also provide single-source warranty, planned maintenance, and round-the-clock emergency service 24 hours a day, seven days a week including back-up power rental through our network of distributors.

To find out how you can benefit from "The Power of One," contact your local Cummins Power Generation distributor. Or call Cummins Power Generation at 800-888-6626 or 763-574-5000.



The Power of One^{TM}

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Backfeed to a utility system can cause electrocution and or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is opened.

Specifications are subject to change without notice. Printed in the U.S.A.

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