

YOUR STRONGEST LINK TO CRITICAL POWER

PowerCommand® X-Series Transfer Switches



**FOR
A WORLD
THAT'S
ALWAYS ON™**

DEPENDABLE POWER TRANSFER

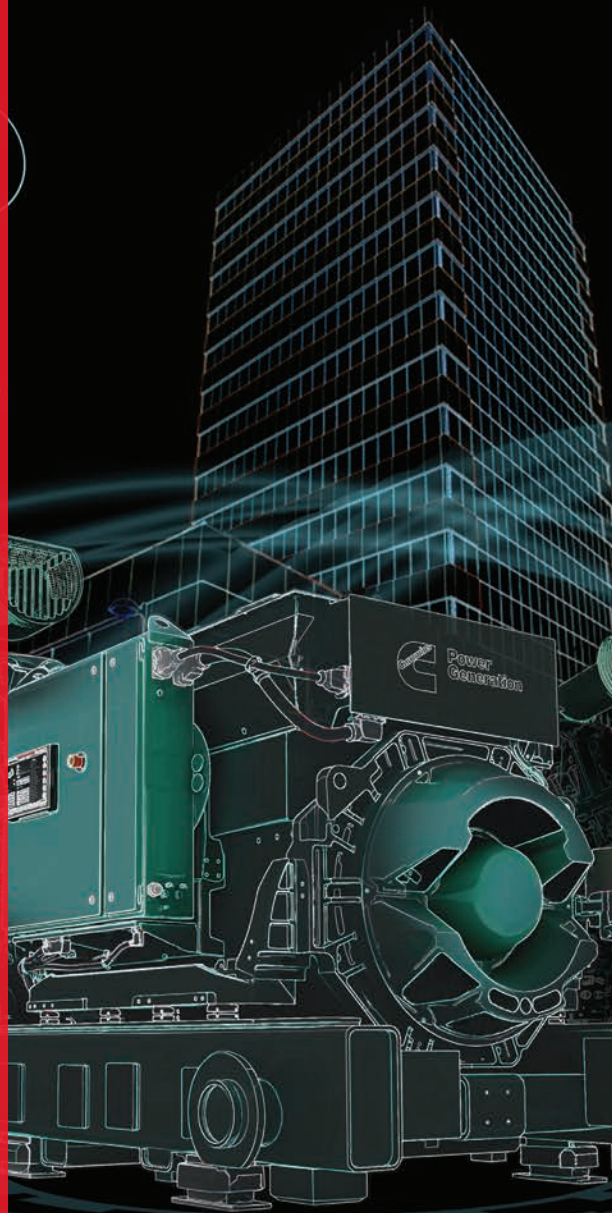
Part of the Cummins Fully Integrated Power System Solution

PowerCommand® X-Series transfer switches rely on proven Cummins technology to deliver fail-safe performance in critical applications. But they're just one component of a completely integrated power system that encompasses decades of application expertise, comprehensive system engineering, exhaustive testing and validation, and a global network of advanced electrical engineers capable of providing on-site service and support.

There's a reason power systems from Cummins are deployed for vital applications at some of the biggest and best-known companies and institutions in the world. Only Cummins manufactures and assembles all of the key components of its power systems. Because of this, we're able to exert the highest levels of design and performance control — resulting in a much more reliable, integrated system than any other provider in the industry. This approach reduces your system complexity and installation time while delivering maximum reliability.

And it's all backed by more than a century of innovation and engineering best practices. With our experience innovating and delivering power generation solutions for critical applications, Cummins provides an unmatched level of expertise in the industry.

That's the Cummins Advantage.



SEAMLESS TRANSFER SWITCHES DESIGNED FOR TODAY'S CRITICAL POWER NEEDS

PowerCommand® X-Series Transfer Switches were designed to not only match but exceed industry requirements, codes and standards.



Flexible Breaker Choices for Transfer Switch Protection

Innovative blow-on technology — designed and patented exclusively by Cummins — enables industry-leading UL1008 withstand and closing current ratings (WCR) and short time-based ratings. These enhanced ratings give you the freedom to use any over-current protection device to safeguard the transfer switch from faults, vastly simplifying selective coordination.

Reliability

PowerCommand® X-Series Transfer Switches are designed for uncompromising reliability, with no need for human intervention. These smarter, tougher switches enable the power to transfer seamlessly between sources. You'll also get real-time monitoring and response that minimize downtime while enabling optimal power quality.

Service and Support

Cummins is a single-source supplier, including generator sets, transfer switches, system paralleling controls and remote monitoring. You can rely on holistic support for every point of your integrated power system, from design and installation to aftermarket maintenance. The Cummins Advanced Electrical Services team, partnering with dedicated project managers and service technicians, can perform complex mechanical and electrical services and upgrades.

Connectivity and Intelligence

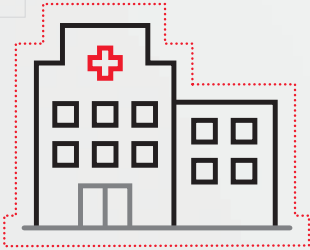
PowerCommand® 80 enables advanced, system-level communications that easily integrate with protocols like a building management system (BMS) with plug-and-play simplicity. You'll also get the connectivity, advanced power quality metering, reporting and cloud-level analytics you need to keep pace with internet of things (IoT) trends.

CRITICAL PROTECTION

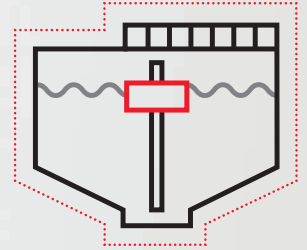
The new PowerCommand® X-Series Transfer Switch is available as automatic (open/closed transition) and non-automatic, with service or non-service entrance, and in 40–3,000 Amps.

The completely Cummins-designed mechanism uses the PowerComand® 80 controller, intended specifically for mission-critical applications where reliable power is paramount to the safety and vitality of our communities:

Healthcare



Water/Wastewater



Data Centers



Airports



OUTPERFORMING INDUSTRY REQUIREMENTS

The PowerCommand® X-Series was designed to meet and exceed rigorous UL1008 requirements, including WCR, covering multiple severe fault current scenarios. In specific duration tests, all X-Series Transfer Switches have proved they can safely transfer into and withstand

a fault for 0.05 seconds. In short-time rating tests, they have shown they can safely transfer into and withstand the fault for 0.50 seconds — and continue to carry the rated current after the fault.

BUILT TOUGH FOR SUPERIOR PERFORMANCE

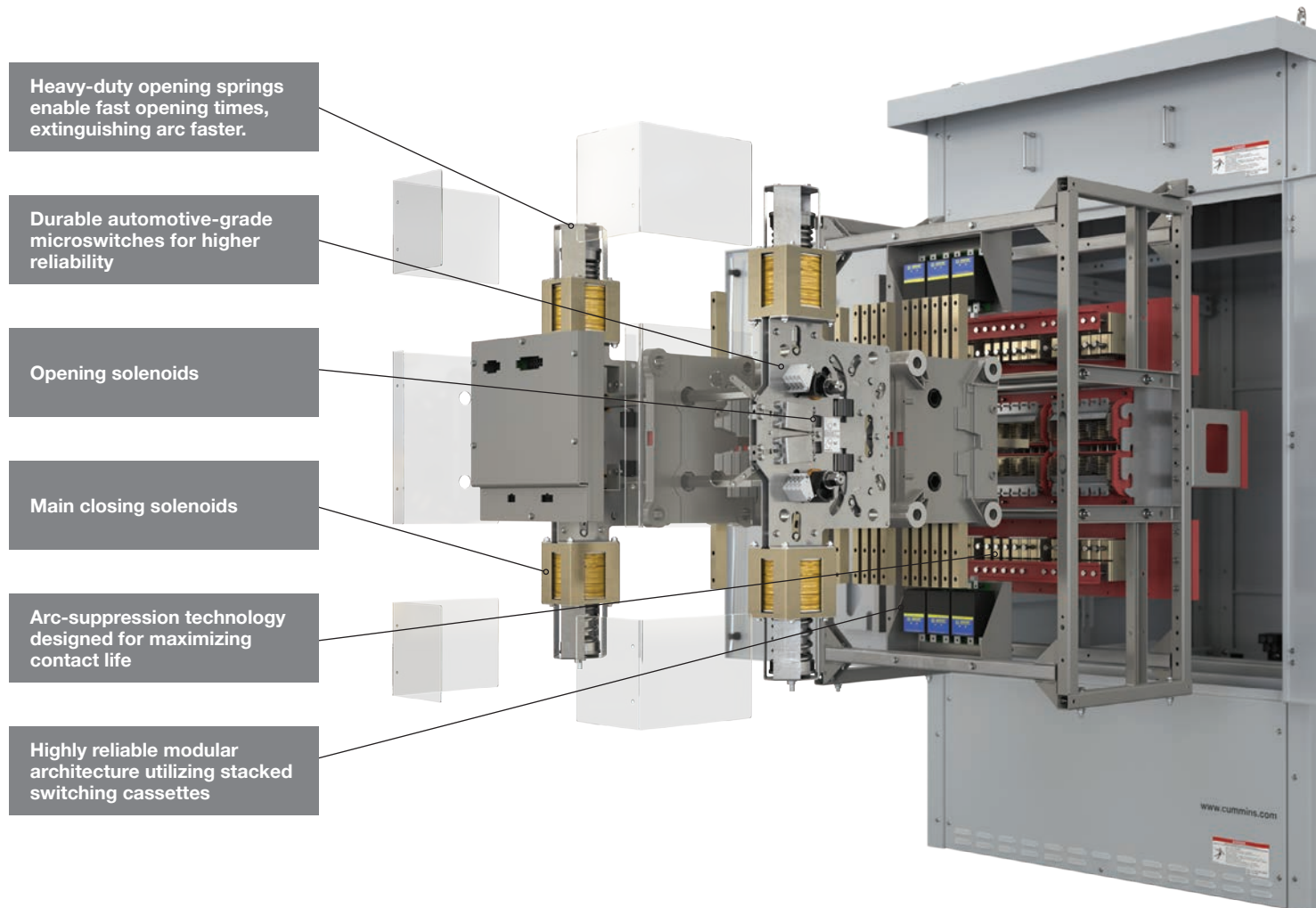
Typical transfer switches are prone to fault occurrences, where the contacts of the switch can be blown open by the magnetic force of a fault, producing destructive arcing and hazards. This often causes extensive internal damage that requires the contacts, arc chutes and potentially even the controller to be replaced.

The blow-on technology utilized by the high-endurance mechanism (HEM) uses that same electromagnetic energy to hold the contacts closed during a fault, practically eliminating arcing, contact damage and performance degradation. With the high short-time

ratings of this innovative technology, costly repairs or inconvenient downtime can be reduced after a fault. The HEM is designed to minimize the contact damage during a fault condition, thus retaining the transfer switch's capability to carry up to 100% of its rated load.

The HEM utilizes a simplified stacked cassette design with fewer parts and lower opportunities for failure. In addition, powerful solenoids and springs enable extremely fast opening and closing; this minimizes bouncing and arcing and ensures a smooth and dependable transfer of power.

HIGH-ENDURANCE MECHANISM DESIGN



NEXT-GENERATION SWITCH CONTROL

Built with the PowerCommand® 80 controller (PC80), the X-Series delivers unrivaled adaptability, connectivity and intelligence.

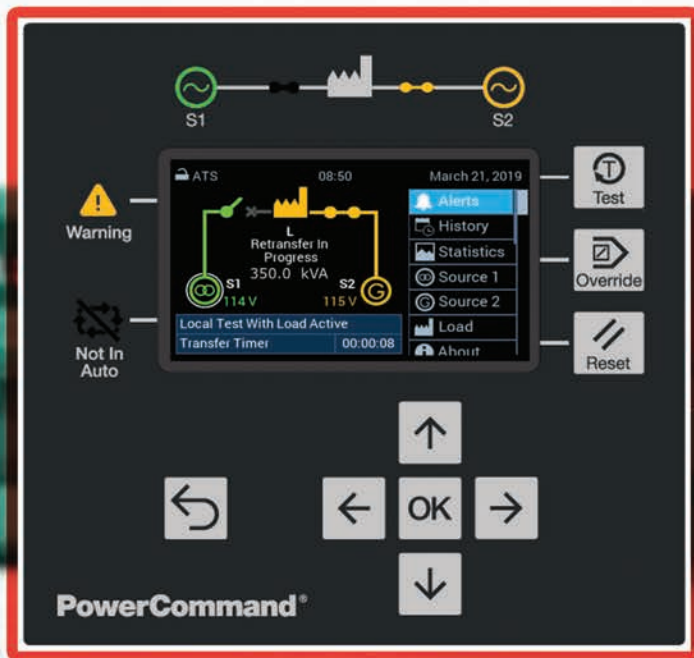
- **A wide range of highly advanced control, monitoring and user customization options**
- **Intuitive, easy-to-use operator interface**
- **Advanced monitoring and troubleshooting benefits that detect problems closer to the load, including:**
 - High-accuracy metering
 - Integrated power quality monitoring
 - Harmonic analysis

- **Automatic downstream load management capability**

- Simplifies the management of loads on the standby source downstream of the transfer switch, without the need for external load control devices or system-level master control schemes
- Saves upfront cost while reducing the complexity of the system and device setup

- **Fully integrated communication and networking solutions, including:**

- Modbus RS485
- TCP/IP communications
- PowerCommand® Cloud-ready



MAXIMIZE YOUR UPTIME

Every aspect of the PowerCommand® X-Series design has been engineered to simplify installation, use and maintenance while keeping your operation running.

- **“Plug and play” control minimizes point-to-point harness connections.**
- **Modular architecture reduces complexity while increasing reliability, uptime and peace of mind.**

- **Easy-to-navigate user interface eases operation and troubleshooting.**
- **A conveniently located service port is on its front panel.**
- **The streamlined system uses only one service tool and one interface.**

BEST-IN-CLASS REMOTE ANNUNCIATOR

The PowerCommand® Transfer Switch Remote Annunciator allows you to remotely monitor up to eight X-Series transfer switches on one easy-to-read color LCD screen. At a glance, you will know the transfer switch position, source availability, and whether there are active events or alerts. An intuitive user interface provides you access to additional information for each transfer switch, including source voltage, frequency, and alert logs and command functions to initiate tests, override transfer timers, and load shed remotely.

- **Market-leading intuitive design**
- **Color-coded symbols and icons**
- **Tactile feedback buttons**
- **Remote monitoring**
- **Detailed information and history**
- **Remote test, override and shed control**
- **Fault and event notification**
- **Voltage and frequency metering**
- **Hardwire support for one non-X-Series control**



LEVERAGE A WORLD-CLASS SERVICE AND SUPPORT NETWORK

Cummins Sales and Service North America (CSSNA), a fully owned North American Cummins network, offers unparalleled size and reach. No matter where you are in a region, highly trained commissioning

engineers and service technicians are available to assist you with everything from startup to service and maintenance to system upgrades.

ADVANCED ELECTRICAL SYSTEM SERVICES

The Cummins Advanced Electrical Services team partners with dedicated project managers and service technicians to provide:

- **Complex power systems delivery**
- **Post-delivery services**
- **Mechanical and electrical upgrades**

This highly trained team is the first choice for the most demanding service tasks among leading emergency power system and electrical distribution suppliers.

EASE OF INSTALLATION AND OPERATION

With more than a century of expertise in power generation innovation, the PowerCommand® X-Series was designed with:

- **Integrated control functionality for fewer devices to program and test during installation and commissioning**
- **Built-in networking capability for ease of connectivity and integration**
- **An easy-to-navigate human-machine interface**

And since Cummins is a single-source supplier, that means the design, testing and servicing are all by Cummins.





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