

PowerCommand Cloud™ Remote Monitoring System



Power Generation Telematics

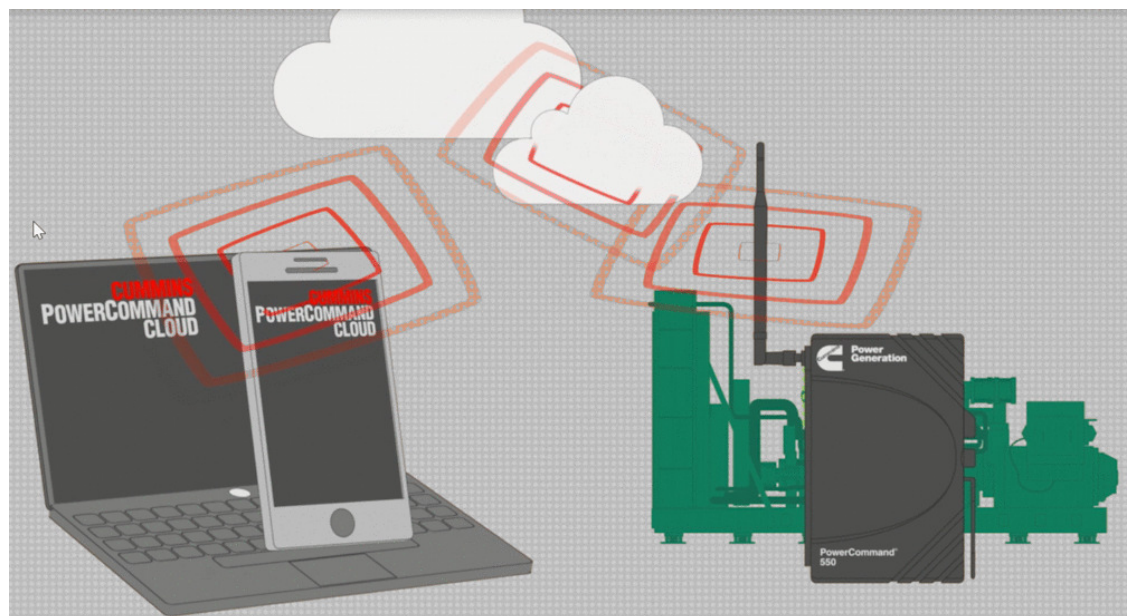
Description

The PowerCommand Cloud™ is a robust and reliable remote monitoring system that provides information and send notifications to ensure your generator is available when you need it.

With easy-to-use mobile and web interfaces, it sends notifications and gives you instant access to your equipment enabling real-time monitoring and control so you can make the right decisions, right away – thus minimizing downtime and maximizing power system performance.

Highlights

- Site and asset status at a glance
- Notifications
- Real-time Remote Monitoring through PowerCommand Cloud™
- Asset Control
- Convenient access through web UI and mobile app
- Multiple sites and equipment management
- Secure data transmission and storage
- Data Trending
- PowerCommand Controls are supported by a worldwide network of independent distributors who provide parts, service and warranty support



Features

- **Communication:** The PowerCommand 500/550 **Cloud Link** communicates to the Power Generation asset controls and communicates telemetry data to the PowerCommand Cloud™.
- **Monitoring:** The PowerCommand **Web and Mobile app** monitors customer account and site information along with monitoring asset data (generator, transfer switch and sensors).
- **Asset Control:** The PowerCommand **Web and Mobile app** can control the system with start, stop and fault reset commands.
- **Notification:** The PowerCommand **Cloud** has the capability to notify users through email to users when an event becomes active.
- **Account/Fleet Management:** The PowerCommand **Web app** offers fleet management capability.
- **User Interface:** The PowerCommand 500/550 **Cloud Link** has a user interface for setup purposes and the web and mobile app monitoring purposes.
- **Event Storage and Export:** The PowerCommand **Cloud** stores the event log while the web and mobile app enables the user to monitor the event logs.
- **Data Storage and Export:** The PowerCommand **Cloud** stores the data and the web app enables data export and graphing of data trends.
- **On Device Diagnostics:** The PowerCommand 500/550 **Cloud Link** offers on device diagnostics.
- **Software Update:** The PowerCommand 500/550 **Cloud Link** offers local software update capability while the PowerCommand 500/550 **Web app** enables execution of the remote software updates.



Our energy working for you.™

©2016 Cummins Power Generation Inc. All rights reserved.

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

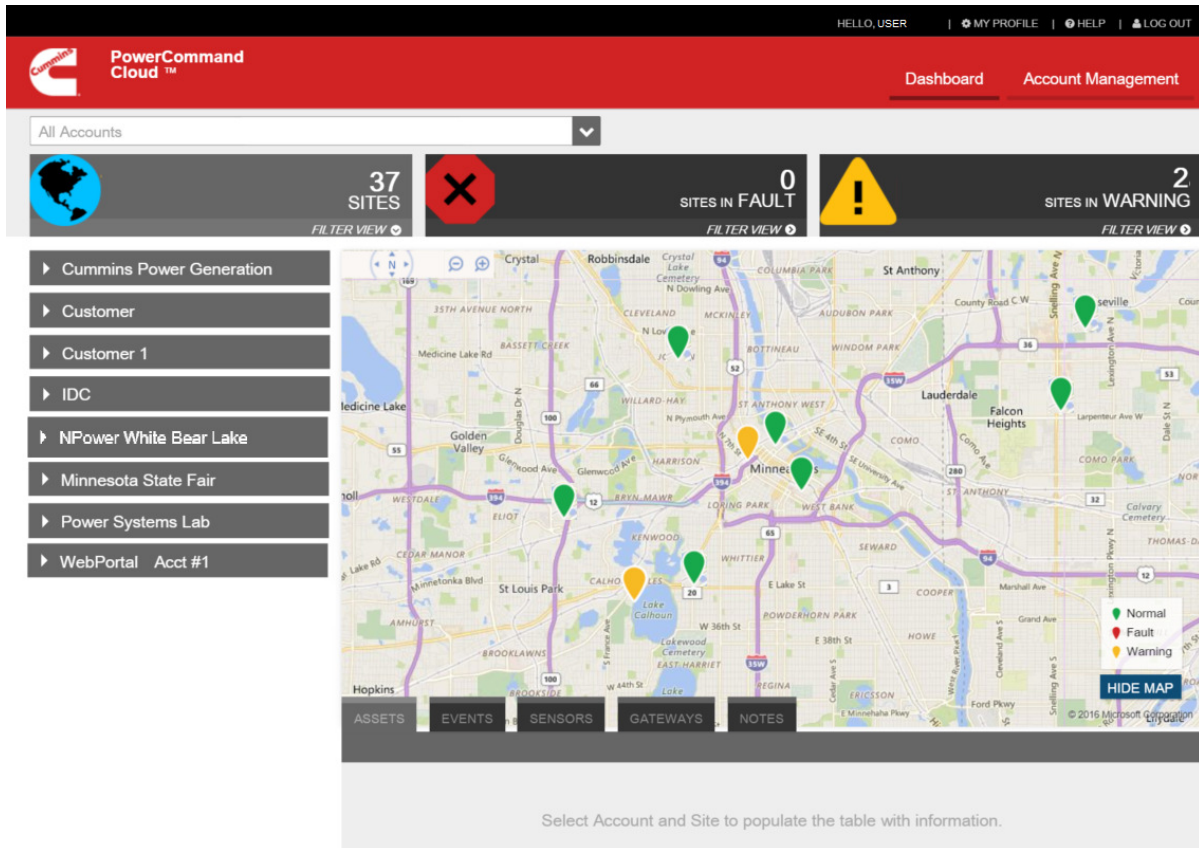
S-6151



power.cummins.com

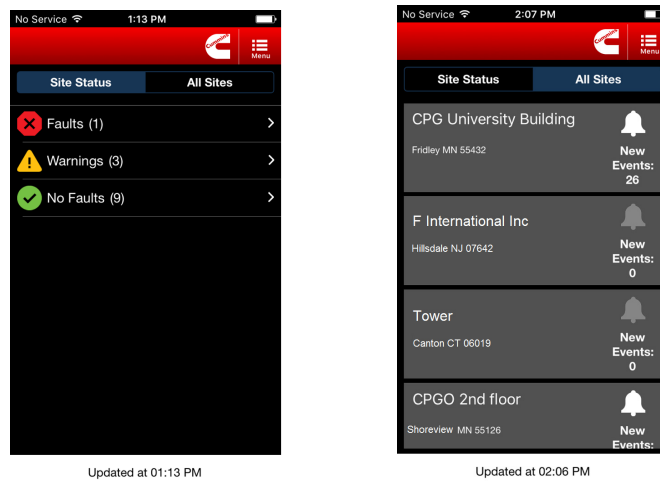
PowerCommand Cloud™ User Interface

Users can remotely access real-time information using mobile and web app.



The web Dashboard allows users to view the status of all configured devices in one glance.

The Dashboard provides an overall system status at a glance that may include multiple sites and devices connected to the cloud. Users have the flexibility to filter assets by status and location and then access information about specific sites and equipment.



Mobile APP Dashboard screens.

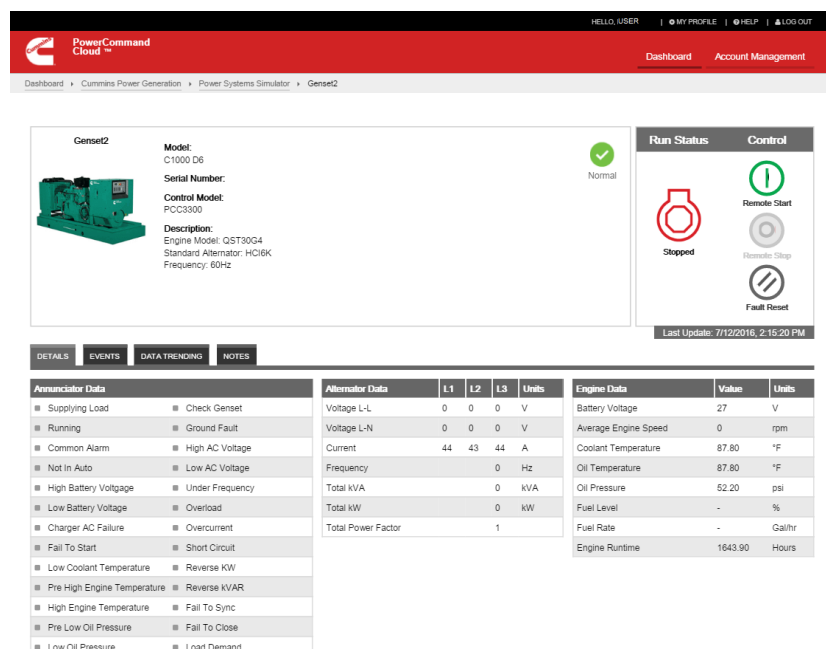
Our energy working for you.™

©2016 Cummins Power Generation Inc. All rights reserved.
Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.
S-6151

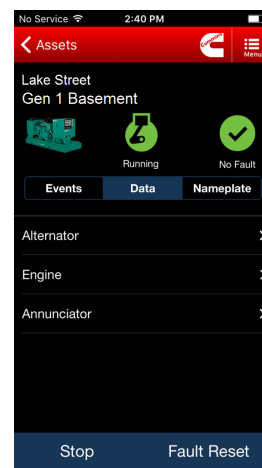


power.cummins.com

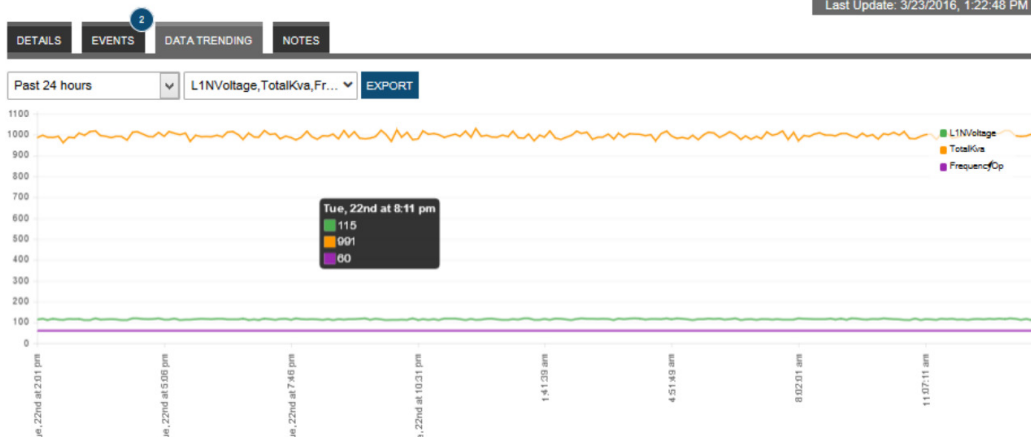
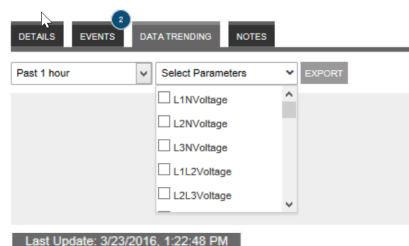
Genset Information



The genset status and telemetry information is available via both the mobile app and web app.



- **Asset Details:** Easy access to Generator's details such as model, serial number, and control model.
- **Annunciator Data:** This section displays the key status, warning and fault events where color coding is used (green, amber, red) depending on the event severity according to NFPA110.
- **Alternator Data:** User can access vital electrical genset information.
- **Engine Data:** Engine information is available in this section.
- **Data Trending:** The user can create graphs for a particular device by selecting a parameter and duration. In addition, asset data can be exported to .csv files.



Our energy working for you.™

©2016 Cummins Power Generation Inc. All rights reserved.

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

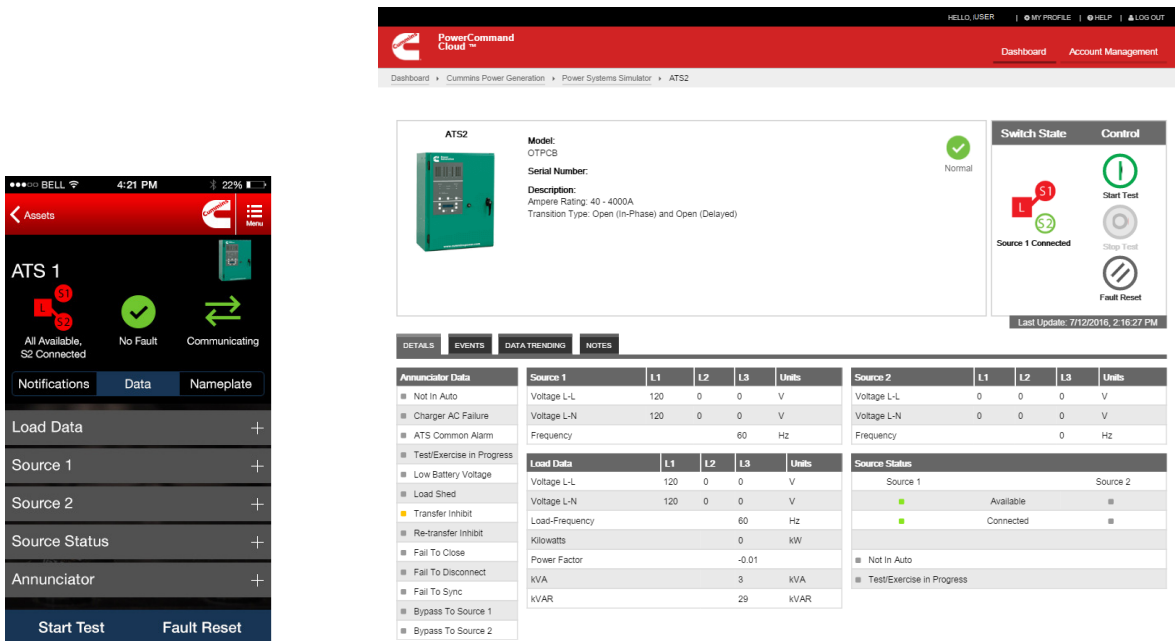
S-6151



power.cummins.com

Automatic Transfer Switch (ATS) Information

ATS status and telemetry information is available on the ATS page. The user can also create data trend graphs for a particular device by selecting a parameter and duration.



- **Asset Details:** Easy access to ATS's details such as model, serial number, and control model.
- **Annunciator Data:** This section displays the key status, warning and fault events where color coding is used (green, amber, red) depending on the event severity according to NFPA110.
- **Sources Data:** User can access vital electrical source information including status.
- **Load Data:** Load information is available in this section.
- **Data Trending:** The user can create graphs for a particular device by selecting a parameter and duration. In addition, asset data can be exported to .csv files.

Sensors

By selecting the Sensors tab the user can view all configured sensors in the inputs. In addition to device specific Inputs, the user can add an AUX 101 (8-configurable inputs) and an AUX 102 (4-non configurable discrete inputs) for additional remote monitoring capability. The Sensors Page displays configured sensors (states/values, low warnings and high warnings). Similar to the generator set and transfer switch data, the user can access specific event logs associated with all configured sensors.

Notifications

Get notified when your genset needs attention. PowerCommand Cloud™ sends notifications and gives you instant access to your equipment enabling real-time monitoring and control so you can make the right decisions, right away — thus minimizing downtime and maximizing power system performance.

Our energy working for you.™

©2016 Cummins Power Generation Inc. All rights reserved.

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

S-6151



power.cummins.com

Certifications



UL 60950-1 Information Technology Equipment, US and Canada Listed



Compliant with Federal Communications Commission Part 15



CAN/CSA-C22.2 NO. 60950-1-07

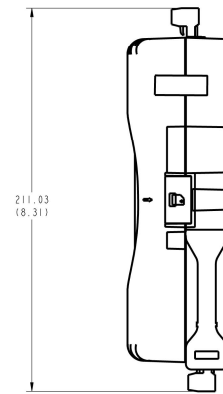
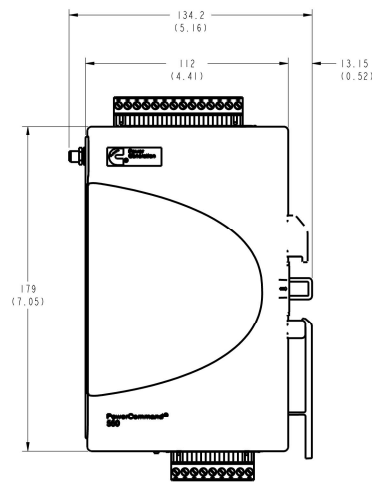
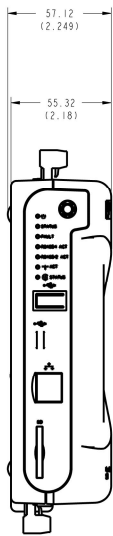


Compliant with Directive 2002/95/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment



Compliant with the provisions of all applicable CE directives

Dimensions of the PC 500/550 Cloud Link



Dimensions are millimeters (inches)

Our energy working for you.™

©2016 Cummins Power Generation Inc. All rights reserved.

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

S-6151



power.cummins.com

System requirements

Web App

- PC or Macintosh computer, tablet, smart phone
- Browser: Internet Explorer, version 8.0 or later, Google Chrome, Firefox, Safari.
- Minimum screen resolution, 1024 x 768

Gateway

- Browser: Internet Explorer, version 8.0 or later.
- Operating System: Microsoft Windows, Mac OS X or Linux
- Microsoft Silverlight, version 5.0 or later
- Windows Mobile Device Center
- Minimum screen resolution, 1024 x 768
- Network: 10/100 megabit Ethernet for the primary physical connection
- The cellular service provider must have a network to support 3G service

Language

The user interface and manuals are available in English.

Hardware requirements

For installation and communication the following additional hardware may be required:

- SIM card (GSM)
- Modbus cable
- Antenna extension cable
- PowerCommand Input/Output AUX 101 Module
- PowerCommand Input/Output AUX 102 Expansion Module

Modbus controls

There is no additional hardware required for Modbus controls: PS0500, PCC1301, 1302, 2300 and 3300.

LonWorks controls

Required hardware for LonWorks-based controls: PCC2100, 3100, 3200 and 3201 generator set controls and OTPC, BTPC, OHPC and CHPC transfer switch controls:

- PowerCommand Lon Gateway LonWorks to Modbus Converter
- PowerCommand Network Communications Module (NCM)
- ModLon Connection Cable

Additional hardware required for non-communicating OTEC, GTEC or third-party transfer switch controls and third-party generator set controls:

- PowerCommand Lon Gateway LonWorks to Modbus Converter

- PowerCommand Network Communication Module (CCM-G)
- PowerCommand Control Communication Module (CCM-T)
- PowerCommand Input/Output AUX 101 Module
- PowerCommand Input/Output AUX 102 Expansion Module

Modbus communications

A shielded twisted pair cable, Belden 9729 cable or equivalent, is recommended for Modbus communication between the PowerCommand 500/550 and any configured devices.

Power supply requirements

The use of a power supply, with the following specification, is recommended. It is also recommended to connect the power supply and **PowerCommand 500/550 Cloud Link** to an uninterruptible power supply (UPS).

Voltage range	12 to 24VDC
Current (12V typical)	250mA
Current (24V typical)	125mA
Power (typical)	3.0W
Power (maximum)	5.0W

Environment

Operating temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Storage temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Humidity	85% RH, non-condensing

Mounting and installation

PowerCommand 550/500 is DIN rail mountable and should be installed in a location suitable for telecommunications, information technology or networking equipment.

Our energy working for you.™

©2016 Cummins Power Generation Inc. All rights reserved.
Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.
S-6151



power.cummins.com

Standard product contents

- PowerCommand 500 or 550 Cloud Link
- Antenna (GSM)
- USB On-The-Go (OTG) cable
- Ethernet cable
- Quick Start Guide
- Quick Troubleshooting Guide
- Warranty Statement
- CD containing Owner's Manual, Quick Start Guide, Quick Troubleshooting Guide and Warranty Statement in English

Accessories

- ☐ A035C381 Antenna Extension (12ft)
- ☐ 0541-1291 PowerCommand Input/Output AUX 101 Module
- ☐ 0541-0772 PowerCommand Input/Output AUX 102 Expansion Module
- ☐ A054V134 Lon Gateway - LonWorks to Modbus Converter
- ☐ 0541-0770 Network Genset Communications Module (NCM) for PCC 2100
- ☐ 0541-0813 Network Genset Communications Module (GCM) for PCC 3100
- ☐ 0541-0809 Network Genset Communications Module (NCM) for PCC 3200/3201
- ☐ 0541-0810 Controls Communications Module, generator set (CCM-G)
- ☐ 0541-0811 Controls Communications Module, transfer switch (CCM-T)
- ☐ 0541-0868 Network Communications Module (NCM) for OTPC/BTPC, >1000 A

Ordering information

Part number	Description
A052V281	PC 500 Cloud Link (up to 2 devices)
A052V282	PC 550 Cloud Link (up to 12 devices)

See your distributor for more information.

Cummins Power Generation

Americas
1400 73rd Avenue N.E.
Minneapolis, MN 55432 USA
Phone: 763 574 5000
Fax: 763 574 5298

Europe, CIS, Middle East and Africa
Manston Park Columbus Ave.
Manston Ramsgate
Kent CT 5BF United Kingdom
Phone 44 1843 255000
Fax 44 1843 255902

Asia Pacific
10 Toh Guan Road #07-01
TT International Tradepark
Singapore 608838
Phone 65 6417 2388
Fax 65 6417 2399

Our energy working for you.™

©2016 Cummins Power Generation Inc. All rights reserved.

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

S-6151



power.cummins.com