Our energy working for you.™

Power Generation

# Full Product Line

## North America

## Contents



# Global strength, local partnership


With more than 90 years of experience in power generation and an extensive global distributor network across 190 countries, Cummins Power Generation is ready to match the right generating, transfer and control technologies with your power needs — whether you require continuous, prime, peaking or standby power; cogeneration; or a complete turnkey power plant.

- 54,600 employees
- 88 manufacturing facilities
- 15 technical centers
- 7,200 dealer locations
- 20 parts distribution centers
- 600 distributors

# The Power of One™

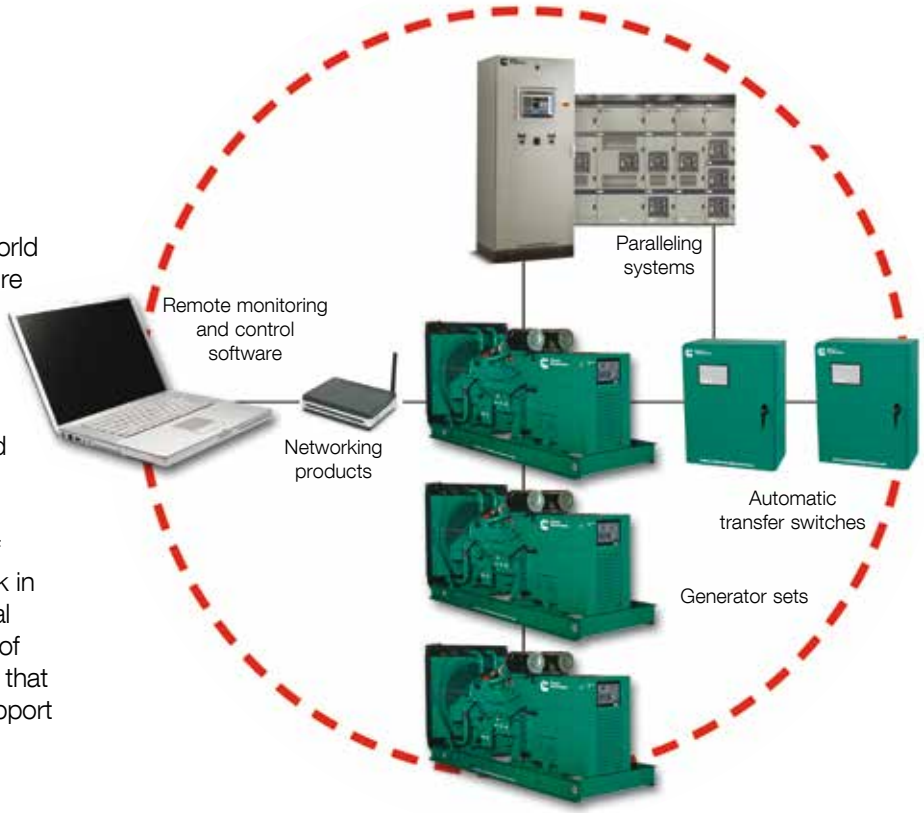
The Power of One has two dimensions. First, it means a single manufacturer of power generation products. And second, it means a single source for a complete set of required services. These two dimensions combine to provide a single source for complete power solutions.

## Total solutions provider

Cummins Power Generation is a world leader in the design and manufacture of pre-integrated generator sets, ranging from 2 kW to 3.5 MW.

All major components – engine, alternator, transfer switches and control systems – are designed and manufactured by Cummins.

Because they are designed by one manufacturer, all of the elements of our power generation systems work in harmony from the start. This integral approach – that we call the Power of One – gives you the peace of mind that comes from excellent customer support and reliable, trouble-free operation.




## Our support capabilities

- System design and application engineering
- Power Suite™ 5.0 tool for sizing and applying power generation equipment
- Project management
- Product customization
- Total solution delivery
- Factory-trained, certified and highly experienced technicians
- Planned maintenance availability (PMA)
- Global distribution network with local support
- Parts availability
- 24/7 emergency response system
- Remote and monitoring control

### What makes us different?

Cummins Power Generation is about more than innovative technologies meeting your needs. The key difference is our people, who live by a simple set of rules we call “The Three Rs.”

### Reliability

When you need real power you can depend on us to deliver unrivaled reliability. We do what we say we will, and more. We keep our promises.

### Relationships

At Cummins you are in touch with real people you can trust and rely on. Wherever and whenever you need us, we’ll be there for you.

### Responsiveness

We strive to provide same-day answers, turnkey solutions, quick delivery, split-second start-up and a phone that is answered 24 hours a day, seven days a week.

# Diesel Generator Sets
## Low-emission technologies

Cummins Power Generation diesel generator sets are known for their fuel efficiency, responsive transient performance and rugged reliability.

### We are committed to meeting or exceeding clean air standards worldwide.

Leading the industry in advanced emissions solutions, we ensure that our generator sets meet U.S. Environmental Protection Agency (EPA) and European Union (EU) emissions standards wherever possible.

Our strong history of emission leadership has enabled us to develop our own emission solutions package in accordance with EPA and EU regulations and requirements.

### Developing products for a cleaner tomorrow

Cummins Power Generation leads the industry in the development of cleaner, quieter and more efficient diesel-powered generator sets. We are committed to meeting or exceeding all global air quality regulatory standards for stationary and nonroad diesel-engine generator sets through 2017 and beyond. This protects public health and conserves vital natural resources.

### New technologies to reduce emissions

Since 1996 in the U.S. and 1999 in the EU when emissions regulations for nonroad diesel engines first went into effect, Cummins Power Generation has developed technologies that reduce the primary pollutants in the exhaust of a diesel generator set by over 90 percent. Pollutants such as nitrogen oxides (NOx), hydrocarbons (HC) and particulate matter (PM) from diesel engines are precursors to smog and ozone in many populated areas of the world. All our generator sets below 500 kWe have emissions-reduction technologies through in-cylinder design improvements and precise control of the combustion process.

### Leading the way in Tier 4

Tier 4 refers to a set of emissions requirements established by the EPA to reduce emissions of particulate matter (PM), oxides of nitrogen (NOx) and air toxics from new, nonroad diesel engines. As part of this clean air initiative, the EPA proposed rules to regulate national emissions, designed to be progressively tightened over time to achieve a steady rate of air quality improvement without unreasonable economic disruption.

A leader in emissions-reduction and control technologies, Cummins Power Generation has pioneered a number of in-engine and aftertreatment techniques to meet and exceed the EPA's emissions-reduction standards for our large, stationary generator sets and mobile generator sets. Cummins was the first manufacturer to introduce EPA Tier 2 and Tier 3 generators to the market, well ahead of the regulatory deadline. Our mobile diesel generator sets were among the first applications in the important 175 to 751 horsepower node required to meet EPA Tier 4 Final emissions regulations, and Cummins was the first manufacturer to receive Tier 4 Final certification on our complete range of high-horsepower diesel generator sets, eight months ahead of EPA's implementation date.

Our commitment to providing you with total operational flexibility in how you choose to use generator power is what drives us to stay ahead of the game.

### Clean power creates powder

At Snow Summit Ski Resort in Big Bear Lake, California, a PowerCommand® system provides 12 megawatts of electricity to power air compressors, water pumps and fan guns that make up the resort's snowmaking equipment. The 2 MW diesel generators are designed to meet Southern California's strict air-quality requirements.

# Diesel Generator Sets

## 10 kW to 3500 kW (60 Hz)

| Model Name | Standby Rating | | Prime Rating | | DCC Rating | | Continuous Rating | | Engine Model | Emissions Compliance | Standard Alternator | Standard Control | Sound Enclosure |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kVA | kWe | kVA | kWe | kVA | kWe | kVA | kWe | | | | | |
| C10 D6 | 12.5 | 10 | 11.4 | 9.1 | - | - | - | - | D1703-M | EPA Tier 4i | CA115 | PC 1.1 | O |
| C15 D6 | 18.8 | 15 | 17 | 13.6 | - | - | - | - | D1703-M | EPA Tier 4i | CA115 | PC 1.1 | O |
| C20 D6 | 25 | 20 | 22.8 | 18.2 | - | - | - | - | V2203-M | EPA Tier 4i | CA115 | PC 1.1 | O |
| C25 D6 | 31.3 | 25 | 28.3 | 22.7 | - | - | - | - | B3.3-G5 | EPA Tier 3 | CA115 | PC 1.1 | O |
| C30 D6 | 37.5 | 30 | 33.7 | 27 | - | - | - | - | B3.3-G5 | EPA Tier 3 | CA115 | PC 1.1 | O |
| C35 D6 | 43.7 | 35 | 45 | 32 | - | - | - | - | B3.3-G5 | EPA Tier 3 | CA115 | PC 1.1 | O |
| C40 D6 | 50 | 40 | 45 | 36 | - | - | - | - | B3.3-G5 | EPA Tier 3 | CA115 | PC 1.1 | O |
| DGHDA | 63 | 50 | 56 | 45 | - | - | - | - | 4BT3.3-G7 | EPA Tier 3 | UC2C | PCC 2100 | O |
| DSFAC | 63 | 50 | 56 | 45 | - | - | - | - | QSB5-G3 | EPA Tier 3 | UC2D | PCC 2100 | O |
| DGHDB | 75 | 60 | 68 | 54 | - | - | - | - | 4BT3.3-G7 | EPA Tier 3 | UC2C | PCC 2100 | O |
| DSFAD | 75 | 60 | 68 | 54 | - | - | - | - | QSB5-G3 | EPA Tier 3 | UC2F | PCC 2100 | O |
| DSFAE | 100 | 80 | 90 | 72 | - | - | - | - | QSB5-G3 | EPA Tier 3 | UC2G | PCC 2100 | O |
| DGDB | 125 | 100 | 113 | 90 | - | - | - | - | 6BTA5.9-G6 | EPA Tier 1 | UC3D | PCC 2100 | O |
| DSGAA | 125 | 100 | 113 | 90 | - | - | - | - | QSB7-G5 | EPA Tier 3 | UC3D | PC 1.1 | O |
| DGDK | 156 | 125 | 141 | 113 | - | - | - | - | 6BTA5.9-G3 | EPA Tier 1 | UC3E | PCC 2100 | O |
| DSGAB | 156 | 125 | 141 | 113 | - | - | - | - | QSB7-G5 | EPA Tier 3 | UC3E | PC 1.1 | O |
| DSGAC | 188 | 150 | 169 | 135 | - | - | - | - | QSB7-G5 | EPA Tier 3 | UC3G | PC 1.1 | O |
| DSGAD | 219 | 175 | 200 | 160 | - | - | - | - | QSB7-G5 | EPA Tier 3 | UC3H | PC 1.1 | O |
| DSGAE | 250 | 200 | 225 | 180 | - | - | - | - | QSB7-G5 | EPA Tier 3 | UC3H | PC 1.1 | O |
| DSHAD | 288 | 230 | 263 | 210 | - | - | - | - | QSL9-G2 | EPA Tier 3 | UCD3J | PCC 2100 | O |
| DQDAA | 313 | 250 | 281 | 225 | - | - | - | - | QSL9-G7 | EPA Tier 3 | HC4E | PCC 2100 | O |
| DQDAB | 344 | 275 | 313 | 250 | - | - | - | - | QSL9-G7 | EPA Tier 3 | HC4E | PCC 2100 | O |
| DQDAC | 375 | 300 | 338 | 270 | - | - | - | - | QSL9-G7 | EPA Tier 3 | HC4F | PCC 2100 | O |
| DQHAB | 375 | 300 | 338 | 270 | - | - | - | - | QSM11-G4 | EPA Tier 3 | HC4F | PCC 2100 | O |
| DFEJ | 563 | 450 | 513 | 410 | 513 | 410 | - | - | QSX15-G9 | EPA Tier 2 | HC5D | PC 2.3 | O |
| DFEK | 625 | 500 | 569 | 455 | 569 | 455 | - | - | QSX15-G9 | EPA Tier 2 | HC5E | PC 2.3 | O |
| DQPAA | 750 | 600 | 681 | 545 | 681 | 545 | - | - | QSK19-G8 | EPA Tier 2 | HC5F | PC 2.3 | O |
| DQCA | 750 | 600 | 681 | 545 | 681 | 545 | - | - | QSK23-G7 | EPA Tier 2 | HC6G | PCC 2100 | O |
| DQPAB | 813 | 650 | 681 | 545 | 681 | 545 | - | - | QSK19-G8 | EPA Tier 2 | HC5F | PC 2.3 | O |
| DQCB | 938 | 750 | 850 | 680 | 850 | 680 | - | - | QSK23-G7 | EPA Tier 2 | HC6G | PCC 2100 | O |
| DQFAE | 938 | 750 | 850 | 680 | 850 | 680 | - | - | QST30-G17 | EPA Tier 4F | HC6G | PCC 3201 | - |
| DQFAA | 938 | 750 | 850 | 680 | 850 | 680 | - | - | QST30-G5 | EPA Tier 2 | HC6G | PCC 3201 | O |
| DQCC | 1000 | 800 | 906 | 725 | 906 | 725 | - | - | QSK23-G7 | EPA Tier 2 | HC6G | PCC 2100 | O |
| DQFAF | 1000 | 800 | 906 | 725 | 906 | 725 | - | - | QST30-G17 | EPA Tier 4F | HC6G | PCC 3201 | - |
| DQFAB | 1000 | 800 | 906 | 725 | 906 | 725 | - | - | QST30-G5 | EPA Tier 2 | HC6G | PCC 3201 | O |
| DQFAG | 1125 | 900 | 1023 | 818 | 1023 | 818 | - | - | QST30-G17 | EPA Tier 4F | HC6H | PCC 3201 | - |
| DQFAC | 1125 | 900 | 1023 | 818 | 1023 | 818 | - | - | QST30-G5 | EPA Tier 2 | HC6H | PCC 3201 | O |
| DQFAH | 1250 | 1000 | 1125 | 900 | 1125 | 900 | - | - | QST30-G17 | EPA Tier 4F | HC6K | PCC 3201 | - |
| DQFAD | 1250 | 1000 | 1125 | 900 | 1125 | 900 | - | - | QST30-G5 | EPA Tier 2 | HC6K | PCC 3201 | O |
| DQGAR | 1563 | 1250 | 1419 | 1135 | 1419 | 1135 | 1250 | 1000 | QSK50-G8 | EPA Tier 4F | PI734B | PC 3.3 | - |
| DQGAE | 1563 | 1250 | 1419 | 1135 | 1419 | 1135 | 1250 | 1000 | QSK50-G5 | EPA Tier 2 | PI734B | PC 3.3 | - |
| DQGAS | 1875 | 1500 | 1706 | 1365 | 1706 | 1365 | 1375 | 1100 | QSK50-G8 | EPA Tier 4F | PI734C | PC 3.3 | - |
| DQGAF | 1875 | 1500 | 1706 | 1365 | 1706 | 1365 | 1375 | 1100 | QSK50-G5 | EPA Tier 2 | PI734C | PC 3.3 | - |
| DQKAK | 2188 | 1750 | 2000 | 1600 | 2000 | 1600 | 1813 | 1450 | QSK60-G16 | EPA Tier 4F | PI734C | PC 3.3 | - |
| DQKAD | 2188 | 1750 | 2000 | 1600 | 2000 | 1600 | 1813 | 1450 | QSK60-G6 | EPA Tier 2 | PI734C | PC 3.3 | - |
| DQKAL | 2500 | 2000 | 2281 | 1825 | 2281 | 1825 | 2000 | 1600 | QSK60-G16 | EPA Tier 4F | PI734F | PC 3.3 | - |
| DQKAE | 2500 | 2000 | 2281 | 1825 | 2281 | 1825 | 2000 | 1600 | QSK60-G6 | EPA Tier 2 | PI734F | PC 3.3 | - |
| DQKAM | 2813 | 2250 | 2281 | 1825 | 2500 | 2000 | N/A | N/A | QSK60-G17 | EPA Tier 4F | PI734G | PC 3.3 | - |
| DQKAF | 2813 | 2250 | 2281 | 1825 | 2500 | 2000 | N/A | N/A | QSK60-G14 | EPA Tier 2 | PI734G | PC 3.3 | - |
| DQKAN | 3125 | 2500 | N/A | N/A | 2813 | 2250 | N/A | N/A | QSK60-G19 | EPA Tier 2 | LVSI804X | PC 3.3 | - |
| DQLG | 3125 | 2500 | 2844 | 2275 | 2844 | 2275 | 2500 | 2000 | QSK78-G14 | EPA Tier 4F | MVSI804S | PC 3.3 | - |
| DQLE | 3125 | 2500 | 2844 | 2275 | 2844 | 2275 | 2500 | 2000 | QSK78-G12 | EPA Tier 2 | MVSI804S | PC 3.3 | - |
| DQLC | 3125 | 2500 | 2920 | 2336 | 2920 | 2336 | 2439 | 1951 | QSK78-G6 | - | LVSI804R | PCC 3201 | - |
| DQLH | 3438 | 2750 | 3125 | 2500 | 3125 | 2500 | 2625 | 2100 | QSK60-G14 | EPA Tier 4F | MVSI804S | PC 3.3 | - |
| DQLF | 3438 | 2750 | 3125 | 2500 | 3125 | 2500 | 2625 | 2100 | QSK78-G12 | EPA Tier 2 | MVSI804S | PC 3.3 | - |
| DQLD | 3438 | 2750 | 3125 | 2500 | 3125 | 2500 | 2700 | 2200 | QSK78-G8 | - | LVSI804S | PCC 3201 | - |
| C3000 D6e | 3750 | 3000 | 3438 | 2750 | 3438 | 2750 | 3125 | 2500 | QSK95-G9 | EPA Tier 2 | LVSI804W | PC 3.3 | - |
| C3000 D6 | 3750 | 3000 | 3438 | 2750 | 3438 | 2750 | 3125 | 2500 | QSK95-G2 | - | LVSI804W | PC 3.3 | - |
| C3250 D6e | 4063 | 3250 | 3750 | 3000 | 3750 | 3000 | 3125 | 2500 | QSK95-G9 | EPA Tier 2 | LVSI804W | PC 3.3 | - |
| C3250 D6 | 4063 | 3250 | 3750 | 3000 | 3750 | 3000 | 3125 | 2500 | QSK95-G2 | - | LVSI804W | PC 3.3 | - |
| C3500 D6e | 4375 | 3500 | 3750 | 3000 | 4188 | 3350 | 3438 | 2750 | QSK95-G9 | EPA Tier 2 | LVSI804X | PC 3.3 | - |
| C3500 D6 | 4375 | 3500 | 3750 | 3000 | 4188 | 3350 | 3438 | 2750 | QSK95-G2 | - | LVSI804X | PC 3.3 | - |

● Standard O Option - Not Available

# Enclosures

## Sound-attenuated and weather-protective

Sound-attenuated and weather-protective enclosures from Cummins Power Generation meet even the strictest sound requirements and provide optimal protection from inclement weather.

- Excellent sound attenuation design providing very low noise
- All-aluminum structure for best-in-class, corrosion-resistant performance
- Modular design for easy upgrade to sound level 2 in the field
- Aesthetic design with green and sandstone color options
- Best-in-class wind rating (180 mph)
- Standard IBC seismic certification on all enclosures
- UL 2200 certified

- Multiple levels of sound attenuation provide exceptional sound performance
- Available in steel and aluminum
- Fully housed, enclosed exhaust silencer ensures safety and protects against rust
- Easy access to all major generator and engine control components for servicing
- Embedded design for ingression protection and enhanced anti-corrosion performance
- IBC seismic certification option available
- UL 2200 certified

# Enclosures

## Sound-attenuated and weather-protective

| Model Name | Standby kW | Enclosure package sound pressure levels @ 7 meters dB(A) | | | |
|---|---|---|---|---|---|
| | | Weather protective steel: F182 aluminum: F216+ | Sound attenuated Level 1 steel: F172 aluminum: F231+ | Sound attenuated Level 2 steel: F173 aluminum: F217+ | Sound attenuated Level 3 steel: F232 aluminum: F233+ |
| **60 Hz Diesel Range** | | | | | |
| C10 D6 | 10 | N/A | 67 | 65 | N/A |
| C15 D6 | 15 | N/A | 67 | 66 | N/A |
| C20 D6 | 20 | N/A | 68 | 66 | N/A |
| C25 D6 | 25 | N/A | 70 | 67 | N/A |
| C30 D6 | 30 | N/A | 70 | 68 | N/A |
| C35 D6 | 35 | N/A | 70 | 68 | N/A |
| C40 D6 | 40 | N/A | 70 | 68 | N/A |
| DGHDA | 50 | 83 | 78 | 70 | N/A |
| DGHDB | 60 | 83 | 78 | 70 | N/A |
| DSFAC | 50 | 87 | 79 | 70 | N/A |
| DSFAD | 60 | 87 | 79 | 71 | N/A |
| DSFAE | 80 | 87 | 82 | 72 | N/A |
| DGCG | 80 | 84 | 76 | 67 | N/A |
| DGDB | 100 | 86 | 77 | 70 | N/A |
| DSGAA | 100 | 87 | N/A | 72 | 69 |
| DSGAB | 125 | 88 | N/A | 73 | 69 |
| DSGAC | 150 | 88 | N/A | 73 | 70 |
| DSGAD | 175 | 89 | N/A | 74 | 70 |
| DSGAE | 200 | 89 | N/A | 74 | 71 |
| DSHAD | 230 | 96 | 89 | 78 | N/A |
| DQDAA | 250 | 92++ | 88+++ | 72++++ | N/A |
| DQDAB | 275 | 92++ | 88+++ | 73++++ | N/A |
| DQDAC | 300 | 92++ | 88+++ | 73++++ | N/A |
| DQHAB | 300 | 90++ | 88+++ | 76++++ | N/A |
| DFEJ | 450 | 89++ | 85+++ | 74++++ | N/A |
| DFEK | 500 | 89++ | 87+++ | 73++++ | N/A |
| DQPAA | 600 | 89+++++ | 81+++ | 75+++ | N/A |
| DQPAB | 650 | 90+++++ | 82+++ | 75+++ | N/A |
| DQCA | 600 | 86+++++ | 82+++ | 74++++ | N/A |
| DQCB | 750 | 88+++++ | 83+++ | 75++++ | N/A |
| DQCC | 800 | 88+++++ | 83+++ | 75++++ | N/A |
| DQFAA | 750 | 89+++++ | 79+++ | 75++++ | N/A |
| DQFAB | 800 | 89+++++ | 79+++ | 75++++ | N/A |
| DQFAC | 900 | 89+++++ | 80+++ | 76++++ | N/A |
| DQFAD | 1000 | 90+++++ | 80+++ | 76++++ | N/A |

| Model Name | Standby kW | Enclosure package sound pressure levels @ 7 meters dB(A) | | | |
|---|---|---|---|---|---|
| | | Weather protective steel: F182 aluminum: F216+ | Sound attenuated Level 1 steel: F172 aluminum: F231+ | Sound attenuated Level 2 steel: F173 aluminum: F217+ | Sound attenuated Level 3 steel: F232 aluminum: F233+ |
| **60 Hz Gas Range** | | | | | |
| C20 N6 | 20 | N/A | 67 | 66 | N/A |
| C25 N6 | 25 | N/A | 69 | 67 | N/A |
| C30 N6 | 30 | N/A | 65 | 62 | N/A |
| C30 N6H | 30 | N/A | 76 | 73 | N/A |
| C36 N6 | 36 | N/A | 67 | 66 | N/A |
| C36 N6H | 36 | N/A | 76 | 73 | N/A |
| C40 N6 | 40 | N/A | 68 | 65 | N/A |
| C40 N6H | 40 | N/A | 76 | 73 | N/A |
| C45 N6H | 45 | N/A | 73 | 72 | N/A |
| C50 N6H | 50 | N/A | 73 | 72 | N/A |
| C60 N6H | 60 | N/A | 72 | 73 | N/A |
| GGPC | 45 / 50 | 83 | 74 | 65 | N/A |
| GGHE | 60 | 86 | 77 | 68 | N/A |
| GGHF | 70 / 75 | 87 | 77 | 69 | N/A |
| GGHG | 85 | 80 | 76 | 70 | N/A |
| GGHH | 100 | 80 | 76 | 71 | N/A |
| GGHJ | 125 | 86 | 82 | 75 | N/A |

**Notes:**
Data is a measured average of 8 positions, full load standby rating, steel enclosures only.
(+) Sound levels on aluminum enclosures are approximately 2 dB(A) higher than steel as measured above.
(++) F183 - Weather with residential muffler configuration.
(+++) F201- Quiet Site II Level 1 configuration.
(++++) F202 - Quiet Site II Level 2 configuration.
(+++++) F200 - Weather with mounted muffler configuration.

## Acoustical Technology Center

The Acoustical Technology Center (ATC), located at the plant of Cummins Power Generation in Fridley, Minnesota, U.S., is the largest generator-testing facility of its kind in the world.

- 23,000 sq. ft. total building area
- 13,000 sq. ft. hemi-anechoic test area
- 5,000 sq. ft. build area
- Fully capable now of testing generator sets up to 3.5 MW
- Facility built following the Leadership in Energy and Environmental Design (LEED) guidelines for green building design.

# Spark-Ignited Generator Sets
## 20 kW to 895 kW (60 Hz)

Spark-ignited generator sets are a convenient choice for a variety of emergency and standby applications, including healthcare offices and retail businesses that require gaseous fuel options to meet local codes or fuel containment and economic requirements.

Installation and connection to the fuel source lines are both basic and convenient. As with our diesel generator sets, a complete selection of voltages, accessories, generator sets and control options are available for customizing to your specific needs.

Major features include:

- Multiple control system options, including NFPA 110 compliance
- Natural gas, propane or dual fuel systems
- Weather-protective and sound-attenuated enclosures (steel or aluminum)
- Advanced enclosure design for exceptional sound performance
- Good motor-starting capability and fast recovery from transient load changes
- Closed-loop fuel control system and three-way catalyst to reduce emissions (select models)
- U.S. EPA emissions compliance

GFBC

C40 N6

# Spark-Ignited Generator Sets
## 20 kW to 895 kW (60 Hz)

| Model Name | Fuel Type | | Standby Rating | | Prime Rating | | Engine Model | Emissions Compliance | Standard Alternator | Standard Control |
|---|---|---|---|---|---|---|---|---|---|---|
| | Natural Gas | Propane | kVA | kWe | kVA | kWe | | | | |
| C20 N6 | • | • | 25 | 20 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C25 N6 | • | • | 31 | 25 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C30 N6 | • | • | 38 | 30 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C30 N6H | • | • | 38 | 30 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C36 N6 | • | • | 45 | 36 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C36 N6H | • | • | 45 | 36 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C40 N6 | • | • | 50 | 40 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C40 N6H | • | • | 50 | 40 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| C45 N6H | • | • | 56 | 45 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| GGPC | • | - | 56 | 45 | 50 | 40 | GM V8 5L | EPA* | UC2D | PCC 2100 |
| C50 N6H | • | • | 63 | 50 | - | - | QSJ2.4 | EPA* | CA115 | PC 1.1 |
| GGPC | - | • | 63 | 50 | 50 | 40 | GM V8 5L | EPA* | UC2D | PCC 2100 |
| C60 N6H | • | • | 75 | 60 | - | - | QSJ2.4 | EPA* | CA135 | PC 1.1 |
| GGHE | • | • | 75 | 60 | - | - | Ford V10 6.8L | EPA* | UC2F | PCC 2100 |
| GGHF | • | - | 88 | 70 | - | - | Ford V10 6.8L | EPA* | UC2F | PCC 2100 |
| GGHF | - | • | 94 | 75 | - | - | Ford V10 6.8L | EPA* | UC2F | PCC 2100 |
| GGHG | • | • | 106 | 85 | - | - | Ford V10T 6.8L | EPA* | UC3C | PCC 2100 |
| GGHH | • | • | 125 | 100 | - | - | Ford V10T 6.8L | EPA* | UC3D | PCC 2100 |
| GGHJ | • | • | 156 | 125 | - | - | Ford V10T 6.8L | EPA* | UC3E | PCC 2100 |
| GCMC | - | • | - | - | 68 | 55 | PSI 5.7L | EPA SI NSPS+++ | UCI224 | PCC 1302 |
| GCMC | • | - | - | - | 68 | 55 | PSI 5.7L | EPA SI NSPS+++ | UCI224 | PCC 1302 |
| GFPC | - | • | 163 | 130 | - | - | PSI 11.1L | EPA SI NSPS+ | UCI274 | PCC 1302 |
| GFPA | - | • | 175 | 140 | - | - | PSI 8.8L | EPA SI NSPS+ | UCI274 | PCC 1302 |
| GFPA | • | - | 188 | 150 | - | - | PSI 8.8L | EPA SI NSPS+ | UCI274 | PCC 1302 |
| GCNC | - | • | - | - | 188 | 150 | GTA855e | EPA SI NSPS+++ | UCI274 | PCC 3300 |
| GCNC | • | - | - | - | 188 | 150 | GTA855e | EPA SI NSPS+++ | UCI274 | PCC 3300 |
| GFPC | • | - | 250 | 200 | - | - | PSI 11.1L | EPA SI NSPS+ | UCI274 | PCC 1302 |
| GFBC Cert | • | - | 312 | 250 | - | - | GTA855e | EPA SI NSPS+ | HC434 | PCC 3300 |
| GFBC | • | - | 312 | 250 | - | - | GTA855 | - | HC434 | PCC 1302 |
| GCEC | • | - | - | - | 312 | 250 | QSK19 | EPA SI NSPS+++ | HC434 | PCC 3300 |
| GFEB Cert | • | - | 437 | 350 | - | - | KTA19 SLB | EPA SI NSPS+ | HC434 | PCC 3300 |
| GFGA CC | • | - | 562 | 450 | - | - | GTA28 | EPA SI NSPS++ | HC534 | PCC 1302 |
| GFGA | • | - | 606 | 485 | - | - | GTA28 | - | HC534 | PCC 1302 |
| GFGB CC | • | - | 625 | 500 | - | - | GTA28 | EPA SI NSPS++ | HC534 | PCC 1302 |
| GFJC CC | • | - | 688 | 550 | - | - | GTA38 | EPA SI NSPS++ | HC534 | PCC 1302 |
| GFJA | • | - | 725 | 580 | - | - | GTA38 | - | HC534 | PCC 1302 |
| GFLA CC | • | - | 750 | 600 | - | - | GTA50 | EPA SI NSPS++ | HC534 | PCC 1302 |
| GFJB | • | - | 793 | 635 | - | - | GTA38 | - | HC634 | PCC 1302 |
| GFLB CC | • | - | 812 | 650 | - | - | GTA50 | EPA SI NSPS++ | HC634 | PCC 1302 |
| GFJC | • | - | 882 | 690 | - | - | GTA38 | - | HC634 | PCC 1302 |
| GFLC CC | • | - | 938 | 750 | - | - | GTA50 | EPA SI NSPS++ | HC634 | PCC 1302 |
| GFLA | • | - | 950 | 760 | - | - | GTA50 | - | HC634 | PCC 1302 |
| GFLB | • | - | 1018 | 815 | - | - | GTA50 | - | HC634 | PCC 1302 |
| GFLC | • | - | 1118 | 895 | - | - | GTA50 | - | HC634 | PCC 1302 |

● Standard ○ Option - Not Available

**Notes:**
(+) EPA certified for stationary emergency applications.
-Models with (+) are EPA SI NSPS certified.
-Models with (++) are EPA SI NSPS compliant capable.
-Models with (+++) are EPA Mobile certified.
-Optional Sound Enclosure in above CNP models is Level 2.
-Optional Weather Enclosure is option F001.

# Lean-Burn Gas Generator Sets
## 315 kW to 2 MW (60 Hz)

Lean-burn gas generator sets provide premier performance, fuel efficiency, and low emissions for high hour peaking, prime power, combined heat and power (CHP) and waste-to-energy applications.

Using a lean mixture of fuel and air, this design significantly reduces combustion temperatures, which minimizes the production of nitrogen oxides (NOx). The result is high power output with maximum thermal efficiency and minimal emissions.

The Energy Solutions Business of Cummins Power Generation can handle the most complex requirements surrounding lean-burn gas applications, from initial site planning to system design, construction and installation, through operation and maintenance.

| Model Name | Continuous Rating (kWe) | Standby Rating (kWe) | Engine Model | Alternative Fuels Capability |
|---|---|---|---|---|
| C334 N6C | 334 | – | QSK19G | |
| C1000 N6C | 1000 | – | QSK60G | ● |
| C1000 N6 | – | 1000 | QSK60G | |
| C1100 N6C | 1100 | – | QSK60G | ● |
| C1250 N6C | 1250 | – | QSV91G | |
| C1250 N6 | – | 1250 | QSK60G | |
| C1350 N6 | – | 1350 | QSK60G | |
| C1400 N6C | 1400 | – | QSK60G | |
| C1700 N6 | – | 1700 | QSV91G | |
| C1750 N6C | 1750 | – | QSV91G | ● |
| C2000 N6C | 2000 | – | QSV91G | ● |

● Available

### Waste-to-Energy
Converting wasted gaseous fuels into profitable and sustainable power

### Standby Power
Clean, reliable and cost-effective standby gas power when you need it

### Cogeneration
Combined heat and power solutions for a sustainable future

### Lean-Burn Gas Fuelled Generator Sets
Low emission gas powered energy solutions

### Prime Power
Reliable continuous power for any location, day and night

### Peaking Power
Economical, adaptable and reliable solutions to meet your peak demands

### Project Application Capabilities
Ability to create entire solution to meet the most complex requeriments

### Operation & Maintenance Support
Flexible cover designed around you

For more information: now.cumminspower.com/gas

### CHP system saves money on high on-peak electric rates

William Floyd School District, Shirley, New York - Facing rapidly rising electricity costs, school district officials installed a 2.5 MW combined heat and power system to power three buildings of the Shirley campus. The CHP system provides nearly all of the electricity, heating and cooling for the campus during the local utility's daily peak usage hours when power is very expensive. In the first three years of operation, the CHP system saved more than $1.2 million.

# Rental Power
## 60 kW to 2 MW

Cummins Power Generation has earned a reputation as a global provider of reliable on-site rental power systems. For good reason: we understand the rental power business and can deliver whatever you need, wherever you need it, around the world.

Our rental expertise is focused on delivering total mobile power solutions that solve your — and your customers' — biggest challenges. Look to us as your single source for reliable products, customized configurations, easy installation and excellent local support.

We offer a full range of rental power solutions:

- Rental generator sets up to 2 MW for a variety of industries
- Reliable, pre-integrated systems that are designed to work together and meet the demands of critical applications
- Configurations and features to comply with local requirements and regulations
- Load banks, fuel tanks and transformers to distribution panels and power cables for single to multiple mobile power units

Configured especially for the rental power market, these generator sets are packaged with an easy-to-operate customer interface, allowing quick voltage changes to maximize flexibility and minimize setup. Once on the job, these units:

- Are capable of 32 hours of fuel capacity at 100% prime rating
- Provide industry-leading containment capabilities, 110% of all fluids within baseframe
- Perform reliably in high altitudes and high temperatures as well as low load and low ambient conditions
- Meet all applicable U.S. EPA emission standards, including Tier 4 Final
- Enable paralleling and varying load level functionalities
- Deliver dual frequency capabilities on Tier 4 Final rental power products


| Model Name | 60 Hz Prime Rating | | Engine Model | Emissions Compliance | Standard Alternator | Standard Control |
|---|---|---|---|---|---|---|
| | kVA | kWe | | | | |
| C60 D6R | 68 | 55 | QSB5-G1 | TPEM (EPA Tier 3) | UCI224F | PCC 1302 |
| C80 D6R | 90 | 72 | QSB5-G2 | TPEM (EPA Tier 3) | UCI224G | PCC 1302 |
| C100 D6R | 112 | 90 | QSB5-G4 | TPEM (EPA Tier 3) | UCI274D | PCC 1302 |
| C150 D6R | 169 | 135 | QSB7-G3 | TPEM (EPA Tier 3) | UCI274F | PCC 1302 |
| C150 D2RE | 169 | 135 | QSB7-G9 | Tier 4 Final | UCI274F | PCC 3300 |
| C200 D6R | 225 | 180 | QSB7-G5 | TPEM (EPA Tier 3) | UCI274J | PCC 1302 |
| C200 D2RE | 225 | 180 | QSB7-G9 | Tier 4 Final | UCDI274J | PCC 3300 |
| C275 D2RE | 313 | 250 | QSL9-G9 | Tier 4 Final | HC14E | PCC 3300 |
| C300 D6R | 337 | 270 | QSM11-G4 | TPEM (EPA Tier 3) | HCI434E | PCC 1302 |
| C500 D6RG | 569 | 455 | QSX15-G9 | TPEM (EPA Tier 2) | HC5F | PCC 3201 |
| C800 D6RG | 906 | 725 | QSK23-G7 | TPEM (EPA Tier 2) | HCI634H | PCC 3201 |
| C1000 D6RG | 1125 | 900 | QST30-G5 | TPEM (EPA Tier 2) | HCI634K | PCC 3201 |
| C1500 D6RG | 1688 | 1350 | QSK50-G4 | TPEM (EPA Tier 2) | PI734C | PCC 3300 |
| C1600 D6RG | 1812 | 1450 | QSK23-G7 X 2 | TPEM (EPA Tier 2) | HCI634H | PCC 3201 |
| C2000 D6RG | 2250 | 1800 | QST30-G5 X 2 | TPEM (EPA Tier 2) | HCI634K | PCC 3201 |
| C2000 D6RG | 2281 | 1825 | QSK60 | TPEM (EPA Tier 2) | P734F | PCC 3201 |

# Digital Paralleling Systems & Switchgear

PowerCommand® paralleling systems are operated by DMC Digital Master Controls that interface directly with PowerCommand-controlled generator sets, optimizing performance and simplifying operation and service.

PowerCommand paralleling systems deliver the flexibility demanded by your complex applications. We use common control blocks with prototype-tested components. These systems deliver the features and performance you require and are supported by the industry's only local paralleling service organization.

**Demonstrated Reliability**

Integrated paralleling in the generator set controls offers fast synchronization. Any number of generator sets can be synchronized in less than 15 seconds in most applications.

PowerCommand paralleling systems give you demonstrated reliability:

- Industry-leading mean time before failure (MTBF) data
- Innovative failure mode effect analysis
- Prototype testing to validate system design
- Distributed logic designs that isolate issues by eliminating single points of failure

DMC1500

Switchgear

DMC300

# Digital Paralleling Systems & Switchgear

| Main Features | DMC1000 | | DMC1500 | | DMC200 | DMC300 | DMC8000 | |
|---|---|---|---|---|---|---|---|---|
| | Gen-to-Gen Paralleling | Utility Paralleling | Gen-to-Gen Paralleling | Utility Paralleling | Gen-to-Gen Paralleling | Utility Paralleling | Gen-to-Gen Paralleling | Utility Paralleling |
| **Custom Features** | | | | | | | | |
| Custom engineering available | - | - | - | - | O | O | O | O |
| **Power Section** | | | | | | | | |
| Integrated low voltage switchgear | O | O | O | O | O | O | O | O |
| Integrated medium voltage switchgear | O | O | O | O | O | O | O | O |
| Outdoor switchgear enclosure | O | O | O | O | O | O | O | O |
| Protection relay | O | O | O | O | O | O | O | O |
| Switchgear station battery system | O | O | O | O | O | O | O | O |
| Neutral grounding resistor | O | O | O | O | O | O | O | O |
| Load bank | O | O | O | O | O | O | O | O |
| **Genset Controller Compatibility** | | | | | | | | |
| PowerCommand 3100 | ● | ● | ● | ● | ● | ● | ● | ● |
| PowerCommand 3200 | ● | ● | ● | ● | ● | ● | ● | ● |
| PowerCommand 3201 | ● | ● | ● | ● | ● | ● | ● | ● |
| PowerCommand 3.3 | ● | ● | ● | ● | ● | ● | ● | ● |
| **Genset Paralleling** | | | | | | | | |
| Parallel up to 4 gensets | ● | ● | ● | ● | ● | ● | ● | ● |
| Parallel up to 8 gensets | - | - | O | O | ● | ● | ● | ● |
| Parallel more than 8 gensets | - | - | - | - | O | O | O | O |
| **Load Demand** | | | | | | | | |
| Fixed Sequence | ● | O (PC 3.3 required in all gensets) | ● | O (PC 3.3 required in all gensets) | ● | ● | ● | ● |
| Run Hour Sequence | ● | O (PC 3.3 required in all gensets) | ● | O (PC 3.3 required in all gensets) | O | O | ● | ● |
| Multiple Gen Busses | - | - | - | - | O | O | O | O |
| **Load Add/Shed** | | | | | | | | |
| Priority Based - 6 Levels/6 Loads | O | O | O | O | O | O | O | O |
| Priority Based - 8 Levels/8 Loads | O | O | O | O | O | O | O | O |
| Priority Based - 10 Levels/10 Loads | O | O | O | O | O | O | O | O |
| Priority Based - 16 Levels/32 Loads | O | O | O | O | O | O | O | O |
| Capacity Based - single bus | O | O | O | O | O | O | O | O |
| Priority Based - multiple bus | O | O | O | O | O | O | O | O |
| Manual Load Add/Shed control | O | O | O | O | O | O | O | O |
| **System Test** | | | | | | | | |
| Without Load | ● | ● | ● | ● | ● | ● | ● | ● |
| With Load | ● | ● | ● | ● | ● | ● | ● | ● |
| **System Scheduler (Exercise)** | | | | | | | | |
| Test | ● | ● | ● | ● | O | O | ● | ● |
| Extended Parallel | - | ● | - | ● | - | O | - | ● |
| **Extended Utility Paralleling kW Control** | | | | | | | | |
| Genset Bus % Level (Open Loop/Base Load) | - | ● | - | ● | - | ● | - | ● |
| Genset kW (Open Loop/ Base Load) | - | - | - | - | - | ● | - | ● |
| Genset Bus kW (Closed Loop) | - | ● | - | ● | - | O | - | ● |
| Genset Bus kW with Utility Constraint | - | ● | - | ● | - | O | - | ● |
| Utiity Bus kW (Closed Loop/Peak Shave) | - | ● | - | ● | - | ● | - | ● |

● Standard O Option - Not Available

# Digital Paralleling Systems & Switchgear

| Main Features | DMC1000 | | DMC1500 | | DMC200 | DMC300 | DMC8000 | |
|---|---|---|---|---|---|---|---|---|
| | Gen-to-Gen Paralleling | Utility Paralleling | Gen-to-Gen Paralleling | Utility Paralleling | Gen-to-Gen Paralleling | Utility Paralleling | Gen-to-Gen Paralleling | Utility Paralleling |
| **Extended Utility Paralleling kVAR Control** | | | | | | | | |
| Gen Bus % Level (Open Loop) | - | ● | - | ● | - | ○ | - | ● |
| Genset Bus Power Factor (Open Loop) | - | ● | - | ● | - | ○ | - | ● |
| Genset Bus kVAR (Closed Loop) | - | ● | - | ● | - | ○ | - | ● |
| Genset Bus Power Factor (Closed Loop) | - | ● | - | ● | - | ○ | - | ● |
| Utility Bus kVAR (Closed Loop) | - | ● | - | ● | - | ○ | - | ● |
| Utility Bus Power Factor (Closed Loop) | - | ● | - | ● | - | ○ | - | ● |
| **Extended Paralleling Control** | | | | | | | | |
| Remote start/stop | - | ● | - | ● | - | ● | - | ● |
| Facility load start/stop | - | ● | - | ● | - | ○ | - | ○ |
| **Power Transfer Transitions** | | | | | | | | |
| Open Transition | - | ● | - | ● | ● | ● | ● | ● |
| Hard Closed Transition <100 ms | - | ○ (Transfer pair topology only) | - | ○ (Transfer pair topology only) | - | ○ | - | ○ |
| Hard Closed Transition non-ramping | - | ● | - | ● | - | ● | - | ● |
| Soft Closed Transition | - | ● | - | ● | - | ● | - | ● |
| **NE Function** | | | | | | | | |
| Neutral Earth Device Control | - | - | ○ | ○ | ○ | ○ | ○ | ○ |
| **Data Communications, Display, and Alarming** | | | | | | | | |
| Web Serving HMI Screens | - | - | - | - | ○ | ○ | ● | ● |
| Genset Summary data at the DMC | - | - | ○ | ○ | ● | ● | ● | ● |
| Real Time Trending | - | - | ● | ● | ● | ● | ● | ● |
| Historical Trending | - | - | ● | ● | ○ | ○ | ● | ● |
| Modbus RTU RS485 BMS Interface | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ |
| Modbus RTU RS232 | - | - | ○ | ○ | ○ | ○ | ○ | ○ |
| Modbus TCP/IP over Ethernet BMS Interface | - | - | ○ | ○ | ○ | ○ | ● | ● |
| Remote monitoring with alarm paging and email | - | - | - | - | ○ | ○ | ● | ● |
| Supervisory Monitoring Station for on-site/off-site power systems | - | - | - | - | ○ | ○ | ○ | ○ |
| System Annunciator(s) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Audible Alarm | ● | ● | ● | ● | ● | ● | ● | ● |
| Diagnostics | ● | ● | ● | ● | ● | ● | ● | ● |
| **Operator Interface** | | | | | | | | |
| HMI 211 Operator Interface | ● | ● | - | - | - | - | - | - |
| 15" Color Touch Screen | - | - | ● | ● | ● | ● | ○ | ○ |
| 19" Color Touch Screen | - | - | - | - | ○ | ○ | ● | ● |
| 42" Color Touch Screen | - | - | - | - | ○ | ○ | ○ | ○ |
| Customized systme HMI | - | - | - | - | ○ | ○ | ○ | ○ |
| Multiple HMI | ○ | ○ | - | - | ○ | ○ | ○ | ○ |
| **Redundancy** | | | | | | | | |
| Hot Standby Redundant CPU and cabling | - | - | - | - | ○ | ○ | ○ | ○ |
| Redundant I/O | - | - | - | - | - | - | ○ | ○ |
| **Reports** | | | | | | | | |
| Alarm History | - | - | ● | ● | ● | ● | ● | ● |
| Plant Test Report (JACAHO) | - | - | ○ | ○ | ○ | ○ | ● | ● |
| Custom Report | - | - | - | - | ○ | ○ | ○ | ○ |
| **Certification / Compliance** | | | | | | | | |
| CE Mark | ● | ● | ● | ● | ● | ● | ● | ● |
| UL891 | ○ | ● | ○ | ● | ○ | ● | ● | ● |
| CSA | ○ | ● | ○ | ● | ○ | ● | ● | ● |
| Seismic Zone 4 | ○ | ● | ○ | ● | ○ | ● | ○ | ● |
| OSHPD Certified | ○ | ● | ○ | ● | ○ | ● | ○ | ● |

● Standard ○ Option - Not Available

# PowerCommand® Generator Set Controls

## PowerCommand controls provide you reliable, cost-effective solutions for integrated digital paralleling.

Only generator sets from Cummins Power Generation are available with industry-leading PowerCommand controls. Standard features include not only integrated digital governing and voltage regulation, but also analogue and digital metering, digital engine monitoring systems, smart-starting systems, battery monitoring systems, AmpSentry™ true alternator protection and more.

| Main Features | PowerCommand Generator Control | | | | | | |
|---|---|---|---|---|---|---|---|
| | PS 0500 | PC 1.1/1.2 | PCC 2100 | PC 2.2 | PCC 3201 | PC 3.3 | PC 3.3 MLD |
| **General** | | | | | | | |
| AVR | - | ● | ● | ● | ● | ● | ● |
| Electronic Governing | - | ○ | ● | ● | ● | ● | ● |
| Glow plug control | ● | ● | ● | ● | - | ○ | ● |
| Cycle cranking | ● | ● | ● | ● | ● | ● | ● |
| Full authority engine control | - | ○ | ○ | ○ | ● | ○ | ○ |
| Networking (LonWorks) | - | - | ○ | - | ○ | - | - |
| Networking (ModBus) | - | ● | - | ● | - | ● | ● |
| Fault history | ● | ● | ● | ● | ● | ● | ● |
| **Operator interface** | | | | | | | |
| Manual start/stop | ● | ● | ● | ● | ● | ● | ● |
| Auto/remote start | ● | ● | ● | ● | ● | ● | ● |
| Exercise function | - | - | - | ● | ● | ● | ● |
| Auto LED | ● | ● | - | ● | - | ● | ● |
| Not in Auto LED | ● | ● | ● | ● | ● | ● | ● |
| Manual LED | ● | ● | ● | ● | ● | ● | ● |
| Common Shutdown LED | ● | ● | ● | ● | ● | ● | ● |
| Common Warning LED | ● | ● | ● | ● | ● | ● | ● |
| Exercise LED | - | - | - | ● | ● | ● | ● |
| Emergency stop (local & remote) | ● | ● | ● | ● | ● | ● | ● |
| Alphanumeric screen | ● | ● | ● | ● | ● | ● | ● |
| Remote start input active led | ● | ● | ● | ● | ● | ● | ● |
| Fault reset | ● | ● | ● | ● | ● | ● | ● |
| **Measurement & Instrumentation - Engine** | | | | | | | |
| Oil Pressure | ● | ● | ● | ● | ● | ● | ● |
| Oil Temperature | - | - | ○ | ● | ○ | ● | ● |
| Water Temperature | ● | ● | ● | ● | ● | ● | ● |
| Engine Speed | ● | ● | ● | ● | ● | ● | ● |
| Hours Run | ● | ● | ● | ● | ● | ● | ● |
| Number of Starts | ● | ● | ● | ● | ● | ● | ● |
| Battery Voltage | ● | ● | ● | ● | ● | ● | ● |
| Exhaust Temperature | - | - | - | - | ○ | - | - |
| **Measurement & Instrumentation - Alternator** | | | | | | | |
| 3 Phase L-L & L-N Voltage & Frequency | ● | ● | ● | ● | ● | ● | ● |
| 3 Phase Current | ● | ● | ● | ● | ● | ● | ● |
| kWh | - | - | ● | ● | ● | ● | ● |
| Total kVA | ● | ● | ● | ● | ● | ● | ● |
| Total kW & kVAr | - | - | ● | ● | ● | ● | ● |
| PF | - | - | ● | ● | ● | ● | ● |
| Per Phase kVAr, kW | - | - | ● | ● | ● | ● | ● |
| Per Phase kVA | ● | - | ● | ● | ● | ● | ● |
| **Shutdown Protection & Indication - Engine** | | | | | | | |
| Low Fuel Level | - | ○ | ○ | ○ | ○ | ○ | ○ |
| High Fuel Level | - | - | ○ | ○ | - | ○ | ○ |
| Low Oil Pressure | ● | ● | ● | ● | ● | ● | ● |
| High Engine Coolant temperature | ● | ● | ● | ● | ● | ● | ● |
| Failure to Crank Shutdown | ● | ● | ● | ● | ● | ● | ● |
| Over Crank (Failure to Start) | ● | ● | ● | ● | ● | ● | ● |
| Overspeed | - | ● | ● | ● | ● | ● | ● |

| Main Features | PowerCommand Generator Control | | | | | | |
|---|---|---|---|---|---|---|---|
| | PS 0500 | PC 1.1/1.2 | PCC 2100 | PC 2.2 | PCC 3201 | PC 3.3 | PC 3.3 MLD |
| **Shutdown Protection & Indication - Alternator** | | | | | | | |
| Under & Over Voltage | ● | ● | ● | ● | ● | ● | ● |
| Under & Over Frequency | ● | ● | ● | ● | ● | ● | ● |
| Overcurrent | - | ● | ● | ● | ● | ● | ● |
| Earth Leakage | - | ○ | ○ | ○ | ○ | ○ | ○ |
| Reverse Power | - | - | ● | ● | ● | ● | ● |
| Reverse Var | - | - | ● | ● | ● | ● | ● |
| **Threshold Warning Indications** | | | | | | | |
| Low Oil Pressure | ● | ● | ● | ● | ● | ● | ● |
| Low Engine Coolant Temperature | ● | ● | ● | ● | ● | ● | ● |
| High Engine Coolant Temperature | ● | ● | ● | ● | ● | ● | ● |
| Low Coolant Level | - | - | ● | ○ | ● | ○ | ○ |
| Low Battery Voltage | ● | ● | ● | ● | ● | ● | ● |
| High Battery Voltage | ● | ● | ● | ● | ● | ● | ● |
| Battery Alternator Charge Fault | - | ● | - | ● | - | ● | ● |
| Overcurrent | - | ● | ● | ● | ● | ● | ● |
| Overload | - | ● | - | ● | - | ● | ● |
| AMM - AmpSentry Maintenance Mode | - | - | ● | ● | ● | ● | ● |
| **Paralleling Capability** | | | | | | | |
| Auto Synchronizing (Isolated Bus) | - | - | - | - | ○ | ● | ● |
| kW & VAr Load Sharing Control | - | - | - | - | ○ | ● | ● |
| Auto Synchronizing (Utility Bus) | - | - | - | - | ○ | ● | ● |
| Base Load | - | - | - | - | ○ | ● | ● |
| Synchroscope | - | - | - | - | ○ | ● | ● |
| Peak Lopping | - | - | - | - | - | ● | ● |
| Masterless Load Demand | - | - | - | - | - | - | ● |
| **Power Transfer Function** | | | | | | | |
| Open Transition Transfer | - | - | - | - | ○ | ● | ● |
| Hard Closed Transition | - | - | - | - | ○ | ● | ● |
| Soft Closed Transition (Ramping) | - | - | - | - | ○ | ● | ● |
| Transfer & Base Load (Utility) | - | - | - | - | ○ | ● | ● |
| Gen/Mains Breaker Control | - | - | - | - | ○ | ● | ● |
| Gen/Mains Breaker Status Protection | - | - | - | - | ○ | ● | ● |
| **Environment** | | | | | | | |
| Operating Temp. Range -40°C to +70°C | - | ● | ● | ● | ● | ● | ● |
| Operating Temp. User Interface -20°C to +70°C | ● | ● | ● | ● | ● | ● | ● |
| Humidity up to 95% (non condensing) | ● | ● | ● | ● | ● | ● | ● |
| **Codes & Standards** | | | | | | | |
| CE Compliant | ● | ● | ● | ● | ● | ● | ● |
| NFPA110 | - | ● | ● | ● | ● | ● | ● |
| UL508 Listed | - | - | ● | ● | ● | ● | ● |
| UL Certified | - | ● | ● | ● | ● | ● | ● |
| **Controller Inputs/Outputs** | | | | | | | |
| Digital Inputs (shutdown, warning or status) | 1 | 4 | 4 | 4 | 4 | 4 | 4 |
| Relay Outputs | 1 | 2 | 4 | 4 | 4 | 4 | 4 |
| Configurable Input/Output | - | ○ | ○ | ○ | ○ | ○ | ○ |

● Standard ○ Option - Not Available


PS 0500


PC 1.1


PCC 2100


PCC 3201


PC 1.2/2.2


PC 3.3/3.3 MLD

# Automatic Transfer Switches

## PowerCommand® automatic transfer switches communicate directly with the generator set controller, providing more reliable communication across the entire system.

PowerCommand automatic transfer switches feature microprocessor-based control technology for easy operation and robust, high-contact-force design to withstand thousands of switching cycles. Applications include utility-to-generator-set, utility-to-utility or generator-set-to-generator-set. Open-transition switches can be adjusted to completely disconnect the load from both sources for a programmed time period to prevent unnecessary circuit breaker tripping and load damage.

Major features include:

- 40-2000 amp GTEC switches are third-party certified as meeting IEC 60947-6-1 AC31A
- All GTEC switches bear the CE mark
- OTEC, OTPC, BTPC, CHPC and OHPC switches are UL 1008 Listed with UL Type Rated cabinets and UL Listed CU-AL terminals.
- Convenient front-panel display to easily review power and load conditions
- Service entrance configurations up to 1000 amps

### Open-transition transfer

Break-before-make switching action is the most basic type of transfer; the connection to one source is opened before the connection to the second source is closed. The sync-check feature included in open-transition transfer control monitors both sources and initiates the transfer—avoiding out-of-phase closing.

### Programmed-transition transfer

Similar to open-transition transfer, the switch opens the connection to one source, pauses for an adjustable delay time, then closes the connection to the second source. The adjustable time between sources allows the decay of residual voltage before connecting to the second source.

### Closed-transition transfer

Make-before-break switching action for uninterrupted power transfer, the transfer switch provides a seamless transfer of the load from one source to another by momentarily paralleling both sources (<100 milliseconds) during the transfer period.

### Bypass isolation (switch mechanism)

Allows maintenance to the main ATS without disconnecting the load. By having two transfer switches connected in parallel, the bypass transfer switch adds redundancy to the system.

# Automatic Transfer Switches

| Main Features | Automatic Transfer Switches | | | | |
|---|---|---|---|---|---|
| | GTEC | OTEC | OTPC | BTPC | CHPC/OHPC |
| **Specifications** | | | | | |
| Duty | Light | Light | Heavy | Heavy | Heavy |
| Amp Range | 40 - 2000 | 40 - 1200 | 40 - 4000 | 150 - 4000 | 125 - 800 |
| (Select the ATS to suit the largest-sized supply (amps) that will be applied to the ATS) | | | | | |
| Voltage Rating | up to 480VAC | up to 600VAC | up to 600VAC | up to 600VAC | up to 600VAC |
| Phases | 1 or 3 | 1 or 3 | 1 or 3 | 1 or 3 | 1 or 3 |
| Frequency | 50 or 60Hz | 50 or 60Hz | 50 or 60Hz | 50 or 60Hz | 50 or 60Hz |
| Poles | 2,3,4 | 3,4 | 3,4 | 3,4 | 2,3,4 |
| Warranty | 1 year | up to 10 years | up to 10 years | up to 10 years | up to 10 years |
| Operating Temperature Range (C°) | -30 to 60 | -40 to 60 | -40 to 60 | -40 to 60 | -40 to 60 |
| **Switch Mechanism** | | | | | |
| Open Transition | ● | ● | ● | ● | ● |
| Closed Transition | - | - | ○ (>1000A) | ○ | ○ (CHPC only) |
| Programmed Transition | ● | ● | ● | ● | - |
| Bypass Isolation - Open Transition | - | - | - | ● | - |
| Bypass Isolation - Closed Transition | - | - | - | ○ | - |
| Bypass Isolation - Programmed Transition | - | - | - | ○ | - |
| Utility-to-Genset | ● | ● | ● | ● | ● |
| Utility-to-Utility | - | - | ● (not available with closed transition) | ● (not available with closed transition) | ● (OHPC only) |
| Genset-to-Genset | ● | - | ● | ● (<1000A) | ● |
| Service Entrance available | - | ○ (≤1000A) | ● (≤1000A) | - | - |
| Mechanical Interlock | ● | ● | ● | ● | ● (disabled during closed transition) |
| Load Monitoring | - | - | ○ | ○ | ○ |
| WCR with Specified Circuit Breakers | 25-65kA | 14-85kA | 14 - 100kA | 14 - 100kA | 42 - 85kA |
| WCR with Current Limiting Fuses | 26-120kA | 200kA | 200kA | 200kA | 200kA |
| Short-time ratings / 30-cycle rating (UL listed) | - | - | - | - | 10-42kA |
| **Control** | | | | | |
| Type of Control | Basic micro | Basic micro | PCC L1 or L2 | PCC L2 | PCC L2/ L1 or L2 |
| **Operator Panel** | | | | | |
| Load Connected to Normal LED | ● | ● | ● | ● | ● |
| Normal Source Available LED | ● | ● | ● | ● | ● |
| Load Connected to Emergency LED | ● | ● | ● | ● | ● |
| Emergency Source Available LED | ● | ● | ● | ● | ● |
| Load AC Metering Bar Graph | - | - | ○ | ○ | ○ |
| Alphanumeric Display | - | - | ○ | ○ | ○ |
| Panel Security Lock | - | - | ● | ● | ● |
| **Control Functions** | | | | | |
| 3-phase Voltage Sensing - Utility | ● | ● | ● | ● | ● |
| 3-phase Voltage Sensing - Generator | Single Phase | Single Phase | ● | ● | ● |
| Electrical Isolation from AC - Mains | High Impedance | High Impedance | Transformer | Transformer | Transformer |
| O/U Voltage Sensing Utility | U/V Only | U/V Only | ● | ● | ● |
| O/U Voltage Sensing Generator | U/V Only | U/V Only | ● | ● | ● |
| Voltage Sensing Accuracy | +/- 2% | +/- 2% | +/- 2% | +/- 2% | +/- 2% |
| O/U Frequency Sensing Utility | - | - | ● | ● | ● |
| O/U Frequency Sensing Generator | U/F Only | U/F Only | ● | ● | ● |
| Voltage Imbalance | - | - | Level 2 Cont | Level 2 Cont | ● |
| Phase Rotation | - | - | Level 2 Cont | Level 2 Cont | ● |
| Loss of Phase | - | ● | ● | ● | ● |
| Transfer Normal to Emergency (time) | 0 - 300 secs | 0 - 300 secs | 0 -120 secs | 0 -120 secs | 0 -120 secs |
| Re-transfer Emergency to Normal (time) | 0 - 30 mins | 0 - 30 mins | 0 - 30 mins | 0 - 30 mins | 0 - 30 mins |
| Engine Start Delay (adjustable) | 0 - 10 sec | 0 - 10 sec | 0 - 120 secs | 0 - 120 secs | 0 - 120 secs |
| Time Delay to Engine Stop | 0 - 30 mins | 0 - 30 mins | 0 - 1800 secs | 0 - 1800 secs | 0 - 1800 secs |
| Programmed Transition (time) | 0 - 10 sec | 0 - 10 sec | 0 - 60 secs | 0 - 60 secs | 0 - 60 secs |
| Fail to Disconnect Timer (closed transition) | - | - | Level 2 Cont | ● | ● |
| Time & Date-Stamped Event Log | - | - | ● | ● | ● |
| Historical Data Display | - | - | ● | ● | ● |
| Remote Monitoring/Communication | - | - | ○ | ○ | ○ |
| System Data Display | - | - | ○ | ○ | ○ |
| Elevator Signal Module | ○ | ○ | ○ | ○ | ○ |
| Load Sequencing | - | - | ○ | ○ | ○ |
| Fully-Programmable Exerciser Clock | ○ | ○ | ○ | ○ | ○ |
| Exercise Clock | ● | ● | ● | ● | ● |
| Real-Time Clock | - | - | ● | ● | ● |

● Standard ○ Option - Not Available

# Remote Monitoring and Service Tool

## With the PowerCommand® 500/550, have peace of mind knowing your power system can be monitored from anywhere, at any time.

The PowerCommand 500 series is a convenient monitoring system for overseeing the status of your power system. It enables authorized users to monitor and control generator sets, transfer switches and auxiliary devices, whether the user is on site or off site. The PC 500/550:

- Provides seamless integration with PowerCommand generator set and transfer switch controls as well as expansion I/O modules, reducing configuration and installation time.
- Employs a straightforward graphical interface to monitor data and display overall system and device status for generator sets, transfer switches, sensors and output controls.
- Provides ability to remotely start and stop generator, start and stop transfer switch tests, reset and acknowledge faults and activate/deactivate output controls.
- Stores system and device data such as alternator, engine, source, load and active/inactive states and parameters.
- Sends configured notification via SMTP (email), SMS (text) and SNMP traps to selected user groups when events become active.
- Stores system and device events, including faults and warnings triggered by generator sets, transfer switches, sensors and the PC 500/550 itself.

| Features/ Functionality | PowerCommand 500 | PowerCommand 550 |
|---|---|---|
| Number of Devices Supported | Up to 2 Devices (any combination) | Up to 12 Devices (any combination) |
| Supported Device Types | Generator sets, transfer switches, CCM-T, CCM-G, Aux 101/102 | Generator sets, transfer switches, CCM-T, CCM-G, Aux 101/102 |
| Device I/Os | 2 discrete inputs, 2 discrete outputs, 1 resistive input | 2 discrete inputs, 2 discrete outputs, 1 resistive input |
| Expandable I/O Modules | AUX101: 8-configurable inputs / 8-discrete outputs AUX102: 4-non configurable discrete inputs / 8-discrete outputs | AUX101: 8-configurable inputs / 8-discrete outputs AUX102: 4-non configurable discrete inputs / 8-discrete outputs |
| Notifications | SMTP/Email, SMS/Text and SNMP traps | SMTP/Email, SMS/Text and SNMP/Traps |
| Connection to Supported Devices | Modbus | Modbus |
| Data Logging | Yes No data or report export | Yes Data and report export |
| Extended Memory | Yes | Yes |
| Certification/ Compliance | UL, CSA, CE, FCC, RoHS | UL, CSA, CE, FCC, RoHS |
| Languages | English, Brazilian Portuguese, Chinese, French and Spanish | English, Brazilian Portuguese, Chinese, French and Spanish |
| Power Supply Connection | 8-32 DC | 8-32 DC |
| Warranty Period | 12 months | 12 months |

## PowerCommand InPower™ for planned maintenance

InPower is a PC-based software tool for direct service of PowerCommand products. Available in two editions, InPower uses a graphical interface compatible with Microsoft Windows® to provide direct connection capability.

InPower Pro: Allows users to modify and configure a range of settings within the control for advanced application-specific customization and monitoring of generator set operation and performance parameters.

InPower Lite: Enables users to check parameter settings for diagnostics and trouble-shooting purposes. Features include:

- Calibrations and Adjustments
- Fault Information System
- Strip Chart and Monitor
- Calibration Capture Files

# Specifications and Options

**Emergency Standby Power (ESP):**

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

**Prime Power (PRP):**

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

**Limited-Time Running Power (LTP):**

Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

**Base Load (Continuous) Power (COP):**

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

**Data Center Continuous (DCC):**

Applicable for supplying power continuously to a constant or varying electrical load for unlimited hours in a data center application.

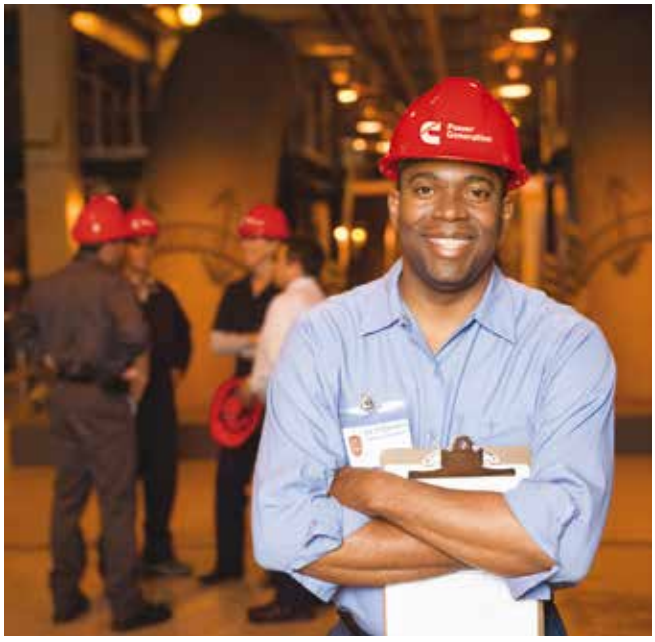
## Our Commitment to You

We stand behind the quality of our products by offering a factory-backed Extended Warranty Program. Your purchase is a long-term investment, and you can count on our Extended Warranty Program to protect your investment.

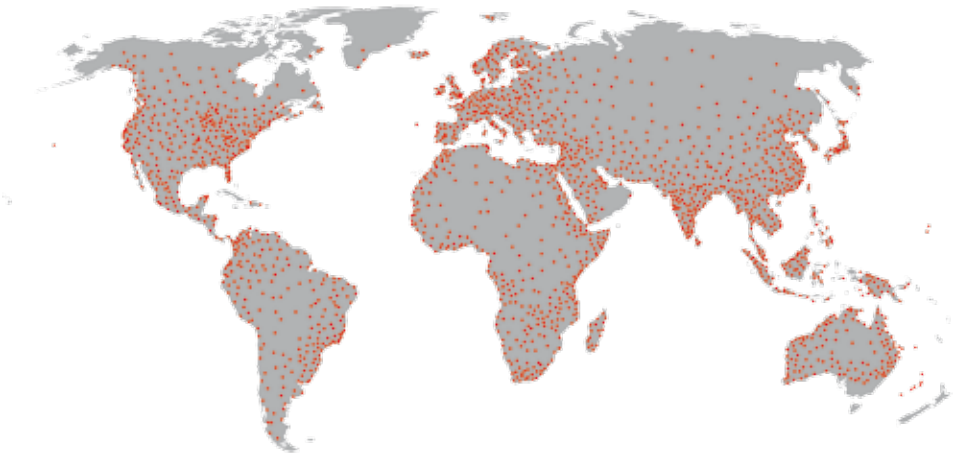
### Extended warranty at a glance:

- Lower risk of unexpected failure costs beyond factory standard warranty
- Minimized downtime with repairs completed by factory-trained technicians using genuine Cummins parts
- No deductibles or hidden charges
- Up to 10 years extended warranty coverage with fixed-price contract
- Variety of coverage terms and options to meet your needs
- Extended warranty coverage is fully transferable
- Protection against rising parts, labor and travel costs
- Backed by 90 years of experience through Cummins Power Generation
- Supported by global network of authorized Cummins Power Generation service providers
- World-class Cummins Power Generation factory technical assistance

For more information on our Extended Warranty Program, contact your local Cummins Power Generation distributor.



With our network of 600 company-owned and independent distributor facilities and more than 7,200 dealer locations in over 190 countries and territories, an expert Cummins distributor is available in almost every corner of the world to provide you with applications assistance, on-site commissioning, troubleshooting, maintenance and aftermarket services. This means you only need one point of contact for the complete power system throughout its life cycle.



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For more information contact your local Cummins distributor. To find the one nearest you visit http://power.cummins.com.



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