

Power Solutions

Fully integrated, reliable and efficient



Global strength, local partnership

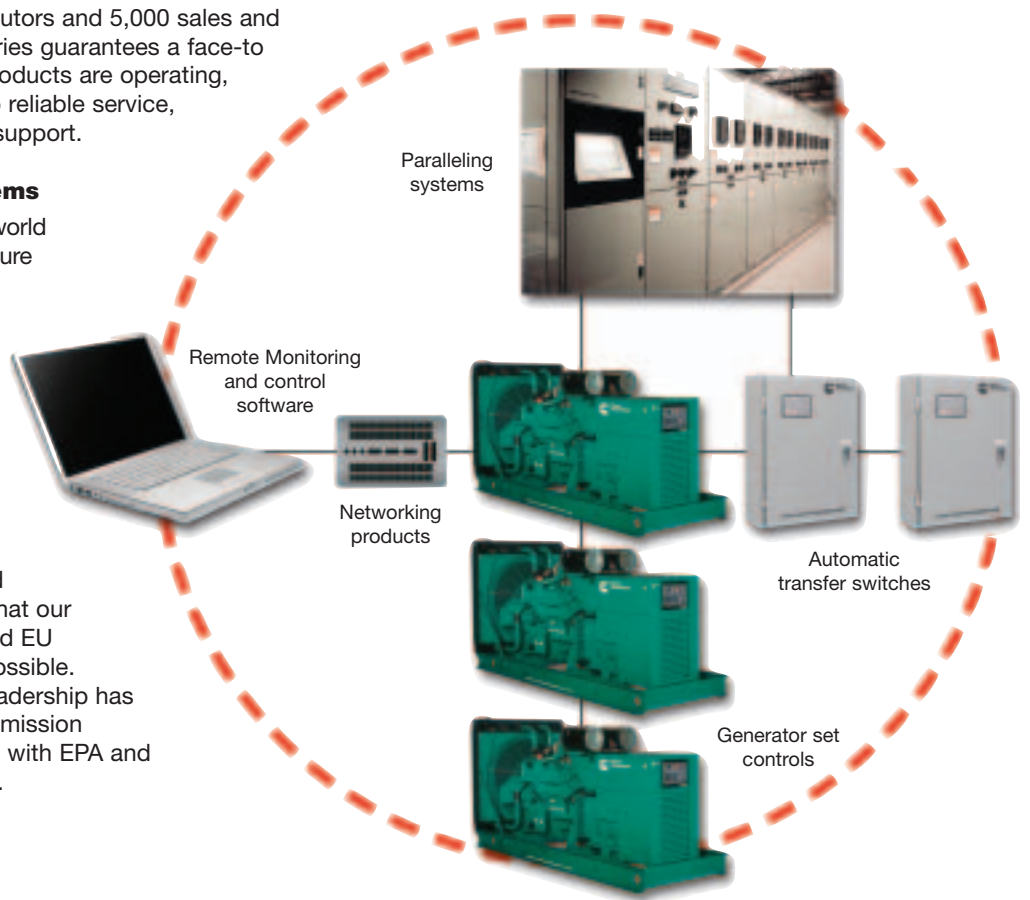
With 90 years experience in power generation we can match the right generating, transfer and control technologies with your power need – be it continuous, prime, peaking, standby, cogeneration or a complete turnkey power plant.

Our global network of 550 distributors and 5,000 sales and service outlets across 190 countries guarantees a face-to-face relationship wherever our products are operating, providing you with fast access to reliable service, engineering expertise and parts support.

Fully integrated power systems

Cummins Power Generation is a world leader in the design and manufacture of pre-integrated generator sets, ranging from 8 kVA to 3300 kVA. All major components – engine, alternator, transfer switches and control systems – are designed and manufactured by Cummins. We call this integrated approach The Power of One™, where each element works in harmony from the start.

Leading the industry in advanced emissions solutions, we ensure that our generator sets meet U.S. EPA and 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.



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".

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.

Reliability

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

Responsiveness

We guarantee same-day answers, turnkey solutions, quick delivery, split-second start-up and a phone that is answered 24 hours a day, 7 days a week.

Low-emissions technologies

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

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 US (EPA) 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 approximately 80 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 emissions-reduction technologies are accomplished through in-cylinder design improvements and precise control of the combustion process.



Cummins Power Generation guarantees the town's mains electricity supply

KAMSAR, GUINEA - Compagnie des Bauxites de Guinée (CBG) is the largest bauxite exporter in the world, with exclusive rights to develop all bauxite reserves in Guinea, West Africa - equating to approximately 300 million tonnes or a third of the world's total reserves.

CBG commissioned five C825 D5 generator sets with switchgear and paralleling system. The generator sets feature a rugged 4-cycle industrial QSK23 diesel engine delivering reliable power at low emissions, ideally suited for the remote location and local environmental considerations.

Diesel generator sets

Integrated design and manufacturing combine to give you unequalled reliability, power quality, rated performance and efficient operation.

Delivering rugged, reliable mechanical and electrical performance, our diesel generator sets are also suited to utility peaking plants, distributed generation facilities, peak shaving (or peak lopping) and power management at large commercial or industrial sites.

Diesel-powered generator sets remain the best-value choice worldwide for standby and emergency power systems. Powered by heavy-duty Cummins engines, our fuel-efficient generator sets are available in sizes ranging from 8 kVA to 3300 kVA, and are known for their responsive transient performance. Cooling systems provide guaranteed performance in high ambient temperatures.

High-performance, low-reactance Cummins-manufactured alternators provide good voltage waveform and exceptional motor starting in demanding applications such as data centres, hospitals and industrial facilities.

Our generator sets are controlled by the world's first fully integrated microprocessor-based control system. This seamlessly integrates governing, voltage regulation, generator set control and protection functions to provide:

- Rapid product availability
- Proven reliability and low life-cycle costs
- High efficiency and operational flexibility
- High-quality electrical performance
- Well-established service and fuel supply infrastructure

PowerCommand® InPower™ for planned maintenance/service capability

PowerCommand InPower for planned maintenance and service provides both local and remote set-up and diagnostics. The PC-based software allows a technician to “talk to” a remote PowerCommand system, determine its status and make adjustments. An internet browser interface provides easy access to PowerCommand InPower's useful functions.

- Strip charts – Obtain real-life recordings of changing conditions and performance
- Adjustments – Change system operating parameters
- Monitoring functions – Use real-time monitoring and data recording to simplify testing and diagnostics
- Report generation – Automatically record test data and formats for quick test reporting
- Fault simulations – Simulate warning or shutdown conditions



Rapid transit system stays on track with Cummins Power Generation

SANTO DOMINGO, DOMINICAN REPUBLIC - SAMPOL Ingenieria y Obras S.A. is a multinational company dedicated to the promotion and management of large commercial and consumer engineering projects at high profile facilities such as hotels, airports, hospitals and railways. It currently employs 80 people with an annual turnover of €150,000,000.

SAMPOL specified nine C2000 D6 generator sets with QSK60 engines to provide a total of 18 MW standby power to the entire Santo Domingo Metro system.

The power system was chosen for its ability to handle a heavy duty load whilst taking into consideration operational noise levels.

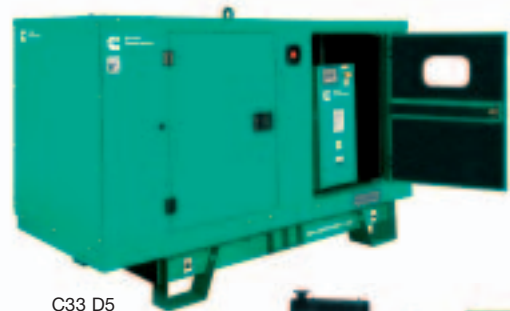
8 kVA to 55 kVA (50 Hz) / 11 kW to 50 kW (60 Hz)

The latest addition to the Cummins Power Generation range, these compact, rugged new generator sets provide the ideal prime or standby power solutions for small businesses, telecoms companies or agriculture.

Best in class, the new range of generator sets are lightweight, easy to service and deliver cost-effective, reliable power from 8 kVA to 38 kVA @ 50 Hz and 11 kW to 35 kW @ 60 Hz.

This series of generator sets offers selectable motor starting capacity with a choice of alternator sizes. PowerStart 0500™ or PowerCommand 1.1™ is offered as standard for total system integration. Product benefits include low fuel consumptions, easily accessible service points and extended service intervals*.

The product also boasts best in class enclosed solutions across the product range including single point lifting capability as standard. Acoustic, fire retardant enclosure linings provide quality, world leading performance; exceeding EU noise directives and pushing the boundaries of technology to provide higher ambient capabilities whilst maintaining its compact size.



C33 D5



C28 D5

* 500-hr service intervals for C33 D5 & C38 D5 / C30 D6 & C35 D6



Telecoms

Power output 50 Hz

| Model | Standby kVA 50 Hz | Standby kW 50 Hz | Prime kVA 50 Hz | Prime kW 50 Hz | Open Set Dimensions (mm) L x W | Wet Weight* (kg) | Engine Type | Tank (L) |
|----------------|-------------------|------------------|-----------------|----------------|--------------------------------|------------------|-------------|----------|
| C8 D5 | 8 | 6.6 | 7.5 | 6 | N/A** | 595.7 | X1.3G2 | 100 |
| C11 D5 | 11 | 8.8 | 10 | 8 | N/A** | 595.7 | X1.3G2 | 100 |
| C17 D5 | 16.5 | 13 | 15 | 12 | 1667 x 930 | 582 | X2.5G2 | 150 |
| C22 D5 | 22 | 17 | 20 | 16 | 1667 x 930 | 582 | X2.5G2 | 150 |
| C28 D5 | 27.5 | 22 | 25 | 20 | 1667 x 930 | 605 | X2.5G2 | 150 |
| C33 D5 | 33 | 26.4 | 30 | 24 | 1753 x 930 | 875 | X3.3G1 | 175 |
| C33 D5e | 33 | 26.4 | 30 | 24 | 1753 x 930 | 645 | 4BT3.3G3 | 107 |
| C38 D5 | 38 | 30.4 | 35 | 28 | 1753 x 930 | 910 | X3.3G1 | 175 |
| C38 D5e | 38 | 30.4 | 35 | 28 | 1753 x 930 | 705 | 4BT3.3G3 | 107 |
| C44 D5e | 44 | 35.2 | 40 | 31.68 | 1753 x 930 | 776 | 4BT3.3G3 | 107 |
| C55 D5e | 55 | 44 | 50 | 40 | 1753 x 930 | 776 | 4BT3.3G3 | 107 |

Power output 60 Hz

| Model | Standby kVA 60 Hz | Standby kW 60 Hz | Prime kVA 60 Hz | Prime kW 60 Hz | Open Set Dimensions (mm) L x W | Wet Weight* (kg) | Engine Type | Tank (L) |
|----------------|-------------------|------------------|-----------------|----------------|--------------------------------|------------------|-------------|----------|
| C12 D6 | 15 | 12 | 13 | 11 | 1667 x 930 | 569 | X2.5G4 | 150 |
| C16 D6 | 20 | 16 | 18 | 15 | 1667 x 930 | 569 | X2.5G4 | 150 |
| C20 D6 | 25 | 20 | 22 | 18 | 1667 x 930 | 582 | X2.5G4 | 150 |
| C30 D6 | 37.5 | 30 | 33.8 | 27 | 1753 x 930 | 875 | X3.3G2 | 175 |
| C30 D6e | 37.5 | 30 | 33.8 | 27 | 1753 x 930 | 645 | 4BT3.3G3 | 107 |
| C35 D6 | 43.8 | 35 | 40 | 32 | 1753 x 930 | 910 | X3.3G2 | 175 |
| C35 D6e | 43.8 | 35 | 40 | 32 | 1753 x 930 | 705 | 4BT3.3G3 | 107 |
| C40 D6 | 50 | 40 | 45 | 36 | 1754 x 930 | 706 | 4BT3.3G3 | 107 |
| C50 D6 | 62.5 | 50 | 56.3 | 45 | 1753 x 930 | 776 | 4BT3.3G3 | 107 |

* Without fuel

** Not applicable, enclosed set only

80 kVA to 3300 kVA (50 Hz)

Power output 50 Hz

| Model | Standby kVA 50 Hz | Standby kW 50 Hz | Prime kVA 50 Hz | Prime kW 50 Hz | Emissions 50 Hz | Open Set Dimensions (mm) L x W | Wet Weight* (kg) | Engine Type | Tank (L) |
|-------------------|-------------------|------------------|-----------------|----------------|-----------------|--------------------------------|------------------|-------------|----------|
| C80 D5 | 80 | 64 | 72 | 58 | | 1950 x 1046 | 1050 | 4BTA3.9G4 | 107 |
| C110 D5 | 110 | 88 | 100 | 80 | 4g | 1977 x 1046 | 1200 | 4ISBeG1 | 107 |
| C150 D5 | 150 | 120 | 136 | 109 | | 2404 x 1100 | 1206 | 6BTA5.9G2 | 310 |
| C150 D5e | 150 | 120 | 136 | 109 | EU SIIIA | 2656 x 1100 | 2027 | QSB7G5 | 530 |
| C175 D5e | 175 | 140 | 158 | 126 | EU SIIIA | 2656 x 1100 | 2128 | QSB7G5 | 530 |
| C200 D5e | 200 | 160 | 182 | 146 | EU SIIIA | 2656 x 1100 | 2226 | QSB7G5 | 530 |
| C220 D5e | 220 | 176 | 200 | 160 | EU SIIIA | 2656 x 1100 | 2226 | QSB7G5 | 530 |
| C250 D5 | 250 | 200 | 227 | 182 | 4g | 2686 x 1300 | 2000 | 6CTAA8.3G2 | 376 |
| C250 D5B** | 250 | 200 | 227 | 182 | 4g | 3040 x 1050 | 2000 | 6CTAA8.3G4 | 550 |
| C275 D5 | 275 | 220 | 250 | 200 | 4g | 3135 x 1100 | 2347 | QSL9G5 | 569 |
| C275 D5B** | 275 | 220 | 250 | 200 | 4g | 3040 x 1050 | 2347 | 6CTAA8.3G4 | 550 |
| C300 D5 | 300 | 240 | 275 | 220 | 4g | 3135 x 1100 | 2570 | QSL9G5 | 569 |
| C330 D5 | 330 | 264 | 300 | 240 | 4g | 3135 x 1100 | 2570 | QSL9G5 | 569 |
| C350 D5 | 350 | 280 | 320 | 256 | | 3549 x 1100 | 3386 | NT855G6 | 674 |
| C400 D5 | 400 | 320 | 360 | 288 | | 3549 x 1100 | 3563 | NTA855G4 | 674 |
| C440 D5 | 440 | 352 | 400 | 320 | | 3549 x 1100 | 3683 | NTA855G7 | 674 |
| C500 D5 | 500 | 400 | 450 | 360 | EU SII | 3433 x 1500 | 4022 | QSX15G8 | 811 |
| C550 D5 | 550 | 440 | 500 | 400 | EU SII | 3433 x 1500 | 4220 | QSX15G8 | 811 |



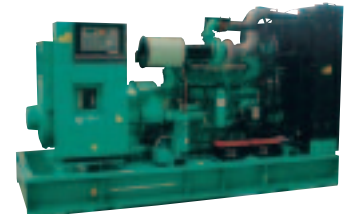
C220 D5e



C275 D5

Power output 50 Hz

| Model | Standby kVA 50 Hz | Standby kW 50 Hz | Prime kVA 50 Hz | Prime kW 50 Hz | Emissions 50 Hz | Open Set Dimensions (mm) L x W | Wet Weight* (kg) | Engine Type |
|------------------|-------------------|------------------|-----------------|----------------|-----------------|--------------------------------|------------------|-------------|
| C650 D5A | 650 | 520 | 590 | 472 | | 3419 x 1285 | 4350 | KTA19G8 |
| C700 D5 | 706 | 565 | 640 | 512 | | 4047 x 1608 | 5665 | VTA28G5 |
| C825 D5 | 825 | 660 | 750 | 600 | | 4266 x 1879 | 6528 | QSK23G3 |
| C825 D5A | 825 | 660 | 750 | 600 | | 4047 x 1608 | 6040 | VTA28G6 |
| C900 D5 | 900 | 720 | 820 | 656 | | 4266 x 1879 | 6680 | QSK23G3 |
| C1000 D5 | 1041 | 833 | 939 | 751 | | 4297 x 1685 | 6141 | QST30G3 |
| C1100 D5 | 1110 | 888 | 1000 | 800 | | 4571 x 1702 | 7374 | QST30G4 |
| C1100 D5B | 1132 | 905 | 1029 | 823 | | 4470 x 1785 | 8350 | KTA38G5 |
| C1250 D5A | 1250 | 1000 | 1125 | 900 | | 4412 x 2083 | 9041 | KTA38G9 |
| C1400 D5 | 1400 | 1120 | 1250 | 1000 | | 5105 x 2000 | 10075 | KTA50G3 |
| C1675 D5 | 1675 | 1340 | 1400 | 1120 | | 5690 x 2033 | 10626 | KTA50G8 |
| C1675 D5A | 1675 | 1340 | 1500 | 1200 | | 5690 x 2033 | 10626 | KTA50GS8 |
| C1760 D5e | 1760 | 1408 | 1600 | 1280 | 2g | 6175 x 2494 | 15736 | QSK60GS3 |
| C2000 D5 | 2063 | 1650 | 1875 | 1500 | | 6175 x 2286 | 15152 | QSK60G3 |
| C2000 D5e | 2200 | 1760 | 2000 | 1600 | 2g | 6175 x 2494 | 16258 | QSK60GS3 |
| C2250 D5 | 2250 | 1800 | 2000 | 1600 | | 6175 x 2286 | 15510 | QSK60G4 |
| C2250 D5A | 2500 | 2000 | 2250 | 1800 | 4g | 6175 x 2494 | 17217 | QSK60G8 |
| C2750 D5 | 2750 | 2200 | 2500 | 2000 | 4g | 5668 x 2313 | 20616 | QSK78G9 |
| C3000 D5 | 3000 | 2400 | 2750 | 2200 | 4g | 5668 x 2313 | 20616 | QSK78G9 |
| C3300 D5 | 3325 | 2660 | 3000 | 2400 | | 7178 x 2251 | 25390 | QSK78G6 |



C550 D5

* Without fuel

** Forthcoming Product

70 kW to 2700 kW (60 Hz)

Power output 60 Hz

| Model | Standby kVA 60 Hz | Standby kW 60 Hz | Prime kVA 60 Hz | Prime kW 60 Hz | Open Set Dimensions (mm) L x W | Wet Weight* (kg) | Engine Type | Tank (L) |
|-----------------|-------------------------|------------------------|-----------------------|----------------------|--------------------------------------|------------------------|----------------|-------------|
| C70 D6 | 88 | 70 | 81 | 65 | 1950 x 1046 | 1050 | 4BTA3.9G2 | 107 |
| C100 D6 | 125 | 100 | 113 | 90 | 1977 x 1046 | 1200 | 4ISBeG1 | 107 |
| C125 D6e | 156 | 125 | 141 | 113 | 2656 x 1100 | 2027 | QSB7G5 | 530 |
| C135 D6 | 169 | 135 | 153 | 122 | 2404 x 1100 | 1206 | 6BTA5.9G2 | 310 |
| C150 D6e | 188 | 150 | 169 | 135 | 2656 x 1100 | 2071 | QSB7G5 | 530 |
| C175 D6e | 219 | 175 | 200 | 160 | 2656 x 1100 | 2128 | QSB7G5 | 530 |
| C200 D6e | 250 | 200 | 225 | 180 | 2656 x 1100 | 2226 | QSB7G5 | 530 |
| C225 D6 | 281 | 225 | 256 | 205 | 2686 x 1300 | 2000 | 6CTAA8.3G2 | 376 |
| C250 D6 | 313 | 250 | 281 | 225 | 3135 x 1100 | 2570 | QSL9G5 | 569 |
| C275 D6 | 344 | 275 | 313 | 250 | 3549 x 1100 | 2570 | QSL9G5 | 569 |
| C300 D6 | 375 | 300 | 344 | 275 | 3549 x 1100 | 2570 | QSL9G5 | 569 |
| C350 D6 | 438 | 350 | 400 | 320 | 3549 x 1100 | 3563 | NTA855G3 | 674 |
| C400 D6 | 500 | 400 | 456 | 365 | 3549 x 1100 | 3683 | NTA855G5 | 674 |
| C450 D6 | 563 | 450 | 513 | 410 | 3433 x 1500 | 4022 | QXS15G9 | 811 |
| C500 D6 | 625 | 500 | 563 | 500 | 3433 x 1500 | 4220 | QXS15G9 | 811 |



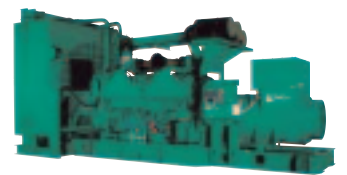
C1000 D5



C1400 D5

Power output 60 Hz

| Model | Standby kVA 60 Hz | Standby kW 60 Hz | Prime kVA 60 Hz | Prime kW 60 Hz | Open Set Dimensions (mm) L x W | Wet Weight* (kg) | Engine Type |
|------------------|-------------------------|------------------------|-----------------------|----------------------|--------------------------------------|------------------------|----------------|
| C600 D6 | 754 | 603 | 681 | 545 | 3875 x 1423 | 5665 | VTA28G5 |
| C750 D6 | 938 | 750 | 850 | 680 | 4414 x 1738 | 6823 | QSK23G3 |
| C800 D6 | 1000 | 800 | 906 | 725 | 4414 x 1738 | 6823 | QSK23G3 |
| C900 D6 | 1156 | 925 | 1044 | 835 | 4460 x 1640 | 6117 | QST30G3 |
| C1000 D6 | 1265 | 1012 | 1150 | 920 | 4547 x 1722 | 8000 | QST30G4 |
| C1000 D6B | 1276 | 1020 | 1160 | 928 | 4470 x 1785 | 8350 | KTA38G4 |
| C1250 D6 | 1588 | 1270 | 1400 | 1120 | 5690 x 2033 | 10075 | KTA50G3 |
| C1500 D6 | 1931 | 1545 | 1608 | 1286 | 5866 x 2033 | 10326 | KTA50G9 |
| C2000 D6 | 2500 | 2000 | 2281 | 1825 | 6175 x 2286 | 15366 | QSK60G6 |
| C2250 D6A | 2813 | 2250 | N/A | N/A | 6175 x 2494 | 17217 | QSK60G9 |
| 2500 DQLC | 3375 | 2700 | 3044 | 2435 | 5458 x 2251 | 23000 | QSK78G6 |



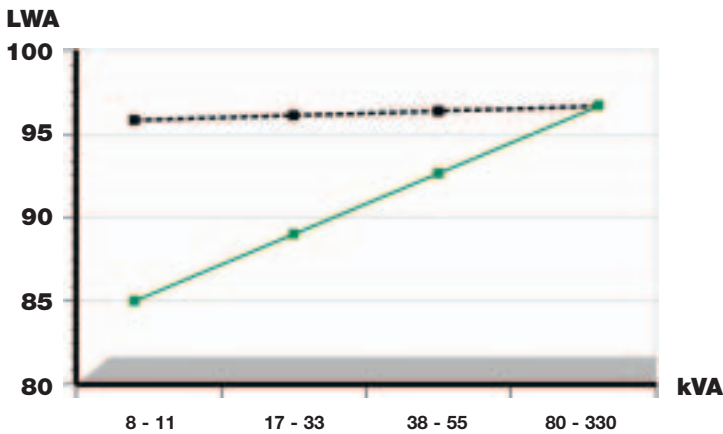
C2250 D5

* Without fuel

Enclosures

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

- Patented recessed lifting arrangement for easier access
- Compact footprint, low-profile design
- Easy access to all major generator and engine control components for servicing
- Fully housed, enclosed exhaust silencer ensures safety and protects against rust
- All-steel construction with stainless steel hardware offers durability
- Direct-mounted to a sub-base fuel tank or lifting base
- Many options available to meet application needs
- Meet or exceed EU legislation 2000/14/EC Step 2006

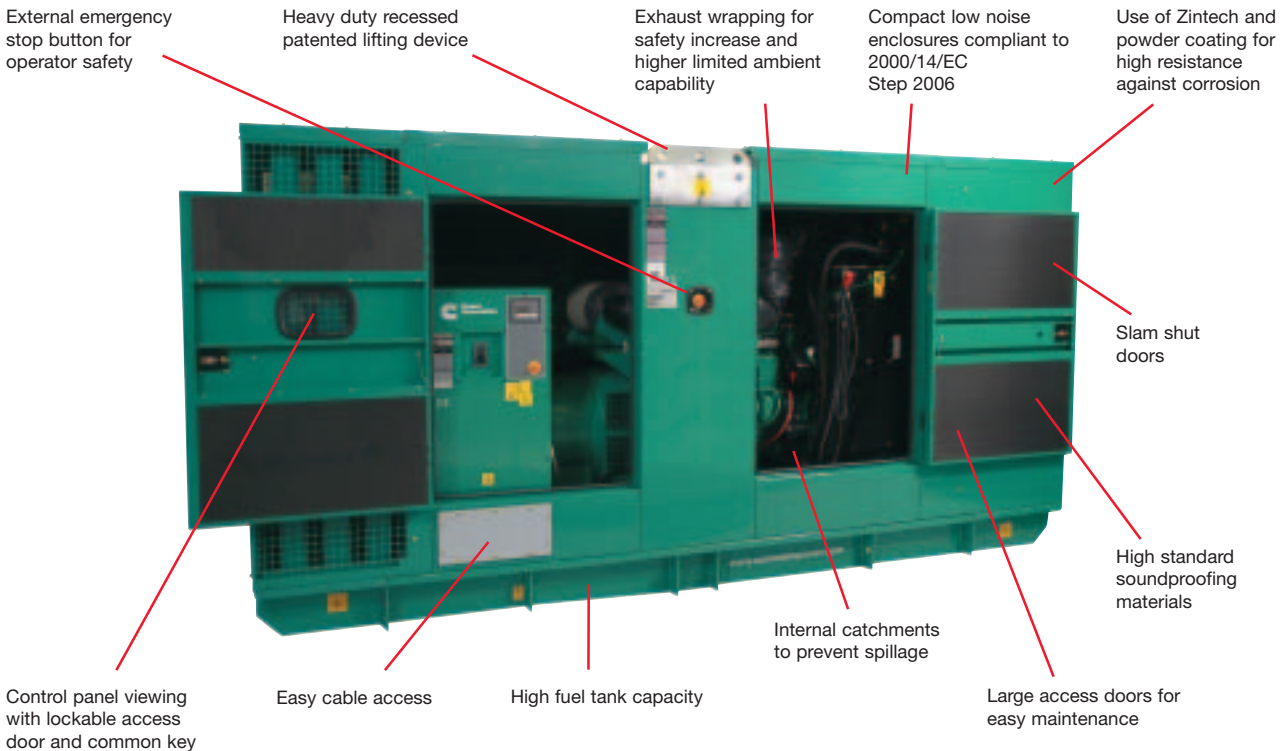


LWA is a mandatory EU noise emission standard. The graph indicates how Cummins Power Generation meets the required standard.

LWA Graph Legend

■ LWA required standard ■ LWA achieved

C275 D5



Enclosed sets 50 Hz and 60 Hz

Power output 50 Hz

| Model | Standby kVA 50 Hz | Dimensions (mm) L x W x H | Wet Weight [^] (kg) | Sound Levels | | Tank (L) |
|-----------|----------------------|------------------------------|---------------------------------|--------------|-----------|-------------|
| | | | | dBA @ 1m* | dBA @ 7m* | |
| C8 D5 | 8 | 1460 x 850 x 1130 | 595.7 | 69 | 58 | 100 |
| C11 D5 | 11 | 1460 x 850 x 1130 | 595.7 | 69 | 58 | 100 |
| C17 D5 | 17 | 2082 x 930 x 1448 | 907 | 74 | 63 | 150 |
| C22 D5 | 22 | 2082 x 930 x 1448 | 907 | 74 | 63 | 150 |
| C28 D5 | 28 | 2082 x 930 x 1448 | 930 | 74 | 63 | 150 |
| C33 D5 | 33 | 2242 x 967 x 1513 | 1235 | 75 | 65 | 175 |
| C33 D5e | 33 | 2244 x 969 x 1575 | 1029 | 71 | 62 | 107 |
| C38 D5 | 38 | 2242 x 967 x 1513 | 1270 | 75 | 65 | 175 |
| C38 D5e | 38 | 2244 x 969 x 1575 | 1029 | 71 | 62 | 107 |
| C44 D5e | 44 | 2245 x 969 x 1575 | 1029 | 71 | 62 | 107 |
| C55 D5e | 55 | 2244 x 969 x 1575 | 1100 | 72 | 63 | 107 |
| C80 D5 | 80 | 2280 x 1084 x 1478 | 1690 | 77 | 67 | 107 |
| C110 D5 | 110 | 2343 x 1084 x 1478 | 1840 | 81 | 71 | 107 |
| C150 D5 | 150 | 2920 x 1136 x 1710 | 2102 | 76 | 67 | 310 |
| C150 D5e | 150 | 3900 x 1100 x 2062 | 2947 | 77 | 69 | 513 |
| C175 D5e | 175 | 3900 x 1100 x 2062 | 3108 | 77 | 69 | 513 |
| C200 D5e | 200 | 3900 x 1100 x 2062 | 3206 | 77 | 69 | 513 |
| C220 D5e | 220 | 3900 x 1100 x 2062 | 3206 | 77 | 69 | 513 |
| C250 D5 | 250 | 3581 x 1360 x 2170 | 3296 | 76 | 68 | 376 |
| C250 D5B# | 250 | 4254 x 1360 x 1989 | 4084 | 80 | - | 550 |
| C275 D5 | 275 | 4254 x 1424 x 2215 | 3924 | 77 | 69 | 569 |
| C275 D5B# | 275 | 4254 x 1360 x 1989 | 4084 | 80 | - | 550 |
| C300 D5 | 300 | 4254 x 1424 x 2215 | 4147 | 77 | 69 | 569 |
| C330 D5 | 330 | 4254 x 1424 x 2215 | 4147 | 77 | 69 | 569 |
| C350 D5 | 350 | 5110 x 1563 x 2447 | 4798 | 76 | 69 | 811 |
| C400 D5 | 400 | 5110 x 1563 x 2447 | 4975 | 76 | 69 | 811 |
| C440 D5 | 440 | 5110 x 1563 x 2447 | 5095 | 76 | 69 | 811 |
| C500 D5 | 500 | 5110 x 1563 x 2447 | 5672 | 78 | 71 | 811 |
| C550 D5 | 550 | 5110 x 1563 x 2447 | 5776 | 79 | 72 | 811 |
| C650 D5A | 650 | 4800 x 1900 x 2400 | 7570 | 85** | 78** | 1200 |



C17 D5



C55 D5e

Power output 60 Hz

| Model | Standby kVA 60 Hz | Dimensions (mm) L x W x H | Wet Weight [^] (kg) | Sound Levels | | Tank (L) |
|----------|----------------------|------------------------------|---------------------------------|--------------|-----------|-------------|
| | | | | dBA @ 1m* | dBA @ 7m* | |
| C11 D6 | 11 | 1454 x 769 x 1417 | 638 | 74 | 64 | 75 |
| C12 D6 | 15 | 2082 x 930 x 1448 | 894 | 75 | 65 | 150 |
| C16 D6 | 20 | 2082 x 930 x 1448 | 894 | 75 | 65 | 150 |
| C20 D6 | 25 | 2082 x 930 x 1448 | 907 | 75 | 65 | 150 |
| C25 D6 | 24 | 2124 x 969 x 1575 | 933 | 80 | 70 | 107 |
| C30 D6 | 30 | 2242 x 967 x 1513 | 1235 | TBA | TBA | 175 |
| C30 D6 | 30 | 2124 x 990 x 1575 | 1029 | 80 | 70 | 107 |
| C35 D6 | 35 | 2242 x 967 x 1513 | 1270 | TBA | TBA | 175 |
| C35 D6 | 35 | 2244 x 969 x 1575 | 1029 | 80 | 70 | 107 |
| C40 D6 | 40 | 2245 x 969 x 1575 | 1029 | 80 | 70 | 107 |
| C50 D6 | 50 | 2244 x 969 x 1575 | 1100 | 80 | 70 | 107 |
| C70 D6 | 70 | 2280 x 1084 x 1478 | 1690 | 80 | 70 | 107 |
| C100 D6 | 100 | 2343 x 1084 x 1478 | 1840 | 84 | 75 | 107 |
| C125 D6e | 125 | 3900 x 1100 x 2062 | 2947 | 80 | 72 | 513 |
| C135 D6 | 135 | 2920 x 1136 x 1710 | 2102 | 83 | 74 | 310 |
| C150 D6e | 150 | 3900 x 1100 x 2062 | 2991 | 80 | 72 | 513 |
| C175 D6e | 175 | 3900 x 1100 x 2062 | 3108 | TBA | TBA | 513 |
| C200 D6e | 200 | 3900 x 1100 x 2062 | 3206 | TBA | TBA | 513 |
| C225 D6 | 225 | 3581 x 1360 x 2170 | 3296 | 83 | 75 | 376 |
| C250 D6 | 250 | 4254 x 1424 x 2215 | 3924 | 80 | 72 | 569 |
| C275 D6 | 275 | 4254 x 1424 x 2215 | 4147 | 80 | 72 | 569 |
| C300 D6 | 300 | 4254 x 1424 x 2215 | 4147 | 80 | 72 | 569 |
| C350 D6 | 350 | 5110 x 1563 x 2447 | 4975 | 81 | 74 | 811 |
| C400 D6 | 400 | 5110 x 1563 x 2447 | 5095 | 81 | 74 | 811 |
| C450 D6 | 450 | 5110 x 1563 x 2447 | 5672 | 82 | 75 | 811 |
| C500 D6 | 500 | 5110 x 1563 x 2447 | 5776 | 84 | 77 | 811 |



C220 D5e



C440 D5

* @ 75% load unless otherwise stated

** @ 100% load

[^] Without Fuel

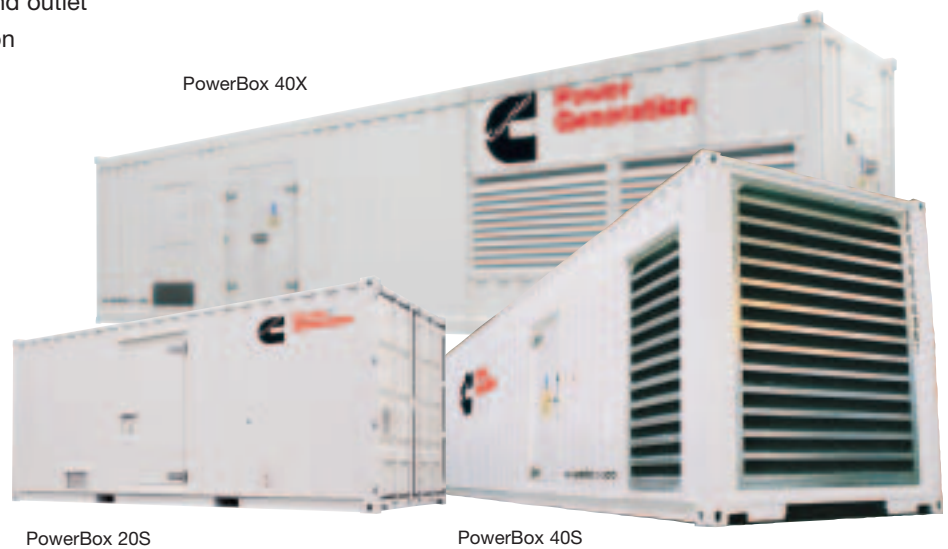
Forthcoming Product

- Not available

PowerBox 640 kVA to 2500 kVA for Prime and Standby

The PowerBox is available in two sizes and noise levels compliant with EC regulations 2000/14/EC Step 2006 and is designed with 4 x ISO corner and pole slots for shipment.

- 20'/40' ISO container (CSC certified)
- Acoustic baffles for the air inlet and outlet
- Sandwich mineral wool attenuation
- Fuel tank standard
- Steel internal floor
- 2 side doors with recessed stainless steel hinges
- 24 volt lighting with timer
- Residential silencer with stainless steel flexible bellows



Power output 50 Hz

| Model | PowerBox Model | Tank (Optional) | Dimensions | Tank (Standard) | Silent Power | | SuperSilenced | |
|------------------|----------------|-----------------|------------|-----------------|--------------|-----------|---------------|-----------|
| | | | | | dBA @ 1m* | dBA @ 7m* | dBA @ 1m* | dBA @ 7m* |
| C700 D5 | PB-20S | 500L | 20' ISO | - | 80 | 75 | - | - |
| C825 D5A | PB-20S | 500L | 20' ISO | - | 80 | 75 | - | - |
| C1000 D5 | PB-20S | 500L | 20' ISO | - | 80 | 75 | - | - |
| C1100 D5 | PB-40S | 500L | 40' ISO HC | - | 82 | 77 | - | - |
| C1100 D5B | PB-40S | 500L | 40' ISO HC | - | 82 | 77 | - | - |
| C1250 D5A | RFQ | | | | | | | |
| C1400 D5 | PB-40S | 500L | 40' ISO HC | - | 82 | 77 | 79 | 74 |
| C1675 D5 | PB-40S | 500L | 40' ISO HC | - | 82 | 77 | - | - |
| C1675 D5A | PB-40S | 500L | 40' ISO HC | - | 82 | 77 | - | - |
| C2200 D5e | PB-40X | - | 40' | 2000L | - | - | 82 | 77 |
| C2250 D5 | PB-40X | - | 40' | 2000L | - | - | 82 | 77 |

Power output 60 Hz

| Model | PowerBox Model | Tank (Optional) | Dimensions | Tank (Standard) | Silent Power | | SuperSilenced | |
|------------------|----------------|-----------------|------------|-----------------|--------------|-----------|---------------|-----------|
| | | | | | dBA @ 1m* | dBA @ 7m* | dBA @ 1m* | dBA @ 7m* |
| C600 D6 | PB-20S | 500L | 20' ISO | - | 87 | 82 | - | - |
| C900 D6 | PB-20S | 500L | 20' ISO | - | 87 | 82 | - | - |
| C1000 D6B | PB-40S | 500L | 40' ISO HC | - | 89 | 84 | - | - |
| C1250 D6 | PB-40S | 500L | 40' ISO HC | - | 89 | 84 | - | - |
| C1500 D6 | PB-40S | 500L | 40' ISO HC | - | 89 | 84 | - | - |

* @ 75% load

- Not available

PowerCommand® generator set controls

PowerCommand controls give you reliable, cost-effective solutions to 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

Generator Controls

PowerCommand/PCC

1301 1/1/2 2100 3100 3201 2.2/3.3

| | 1301 | 1/1/2 | 2100 | 3100 | 3201 | 2.2/3.3 |
|---|------|-------|------|------|------|---------|
| 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 and remote) | ● | ● | ● | ● | ● | ● |
| Alphanumeric screen | ● | ● | ● | ● | ● | ● |
| Remote start input active led | ● | ● | ● | - | ● | ● |
| Fault reset | ● | ● | ● | ● | ● | ● |
| Measurement & Instrumentation | | | | | | |
| Oil Pressure | ● | ● | ● | ● | ● | ● |
| Oil Temperature | - | - | ○ | ○ | ○ | ○ |
| Water Temperature | ● | ● | ● | ● | ● | ● |
| Engine Speed | ● | ● | ● | ● | ● | ● |
| Hours Run | ● | ● | ● | ● | ● | ● |
| Number of Starts | ● | ● | ● | ● | ● | ● |
| Battery Voltage | ● | ● | ● | ● | ● | ● |
| Exhaust Temperature | - | - | - | ○ | ○ | - |
| Measurement & Instrumentation | | | | | | |
| 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 | | | | | | |
| 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

Generator Control

PowerCommand/PCC

1301 1/1/2 2100 3100 3201 2.2 3.3

| | 1301 | 1/1/2 | 2100 | 3100 | 3201 | 2.2 | 3.3 |
|---|------|-------|------|------|------|-----|-----|
| Shutdown Protection & Indication | | | | | | | |
| 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 | ● | ● | ● | ● | ● | ● | ● |
| Batt. Alt. Charge Fault | ● | ● | - | - | - | ● | ● |
| Over Current | ● | ● | ● | ● | ● | ● | ● |
| Overload | ● | ● | - | ● | - | ● | ● |
| Paralleling Capability | | | | | | | |
| Auto Synchronising (Isolated Bus) | - | - | - | ○ | ○ | - | ● |
| kW & VAR Load Sharing Control | - | - | - | ○ | ○ | - | ● |
| Auto Synchronising (Utility Bus) | - | - | - | ○ | ○ | - | ● |
| Base Load | - | - | - | ○ | ○ | - | ● |
| Synchroscope | - | - | - | ○ | ○ | - | ● |
| Peak Lopping | - | - | - | - | - | - | ● |
| 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) | 2 | 4 | 4 | 4 | 4 | 4 | 4 |
| Relay Outputs | 2 | 2 | 4 | 4 | 4 | 4 | 4 |
| Configurable Input/Output | ○ | ○ | ○ | ● | ○ | ○ | ○ |

○ Option ● Standard - Not Available



PCC1301/PowerCommand 1.1



PowerCommand 1.2



PCC2100 with optional Bargraph fitted.



PCC3201



PowerCommand 3.3

www.cumminspower.com

Power transfer and paralleling equipment

PowerCommand systems optimise performance and simplify operation and service.



GTEC - IEC rated Automatic Transfer Switch

Automatic transfer switches

GTEC series transfer switches covering the range 40 to 2000 amps and providing normal and generator set source monitoring, generator set starting, and load transfer functions for emergency, standby and optional standby applications. GTEC transfer switches are continuously rated, so they can be applied in applications up to their nameplate rating.

The transfer switch power contacts are silver alloy composition with high-pressure design that can withstand thousands of switching cycles without burning, pitting or welding. They require no routine contact maintenance and provide 100% continuous current ratings.

The transfer switch control is reliable and easy to understand, utilising LED lamps for status indications, and push-button controls for operator functions. The control is field-programmable without the use of service tools.

Paralleling systems

PowerCommand paralleling systems are designed around dedicated-purpose controllers that are prototype-tested for reliability and performance.

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 organisation.

Demonstrated reliability

Integrated paralleling in the generator set controls offers fast synchronising. Any number of generator sets can be synchronised 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



Networking software and networking

PowerCommand software and networking tools let you easily manage on-site and off-site power systems from one location.

Whether you're using a desktop computer, a laptop or a mobile phone, PowerCommand iWatch™ and PowerCommand Pulse™ help you reduce power set-up time and maintenance.

PowerCommand iWatch for reliable Web-based monitoring

PowerCommand iWatch lets you monitor generator set and transfer switch functions via the internet. PowerCommand iWatch features let you:

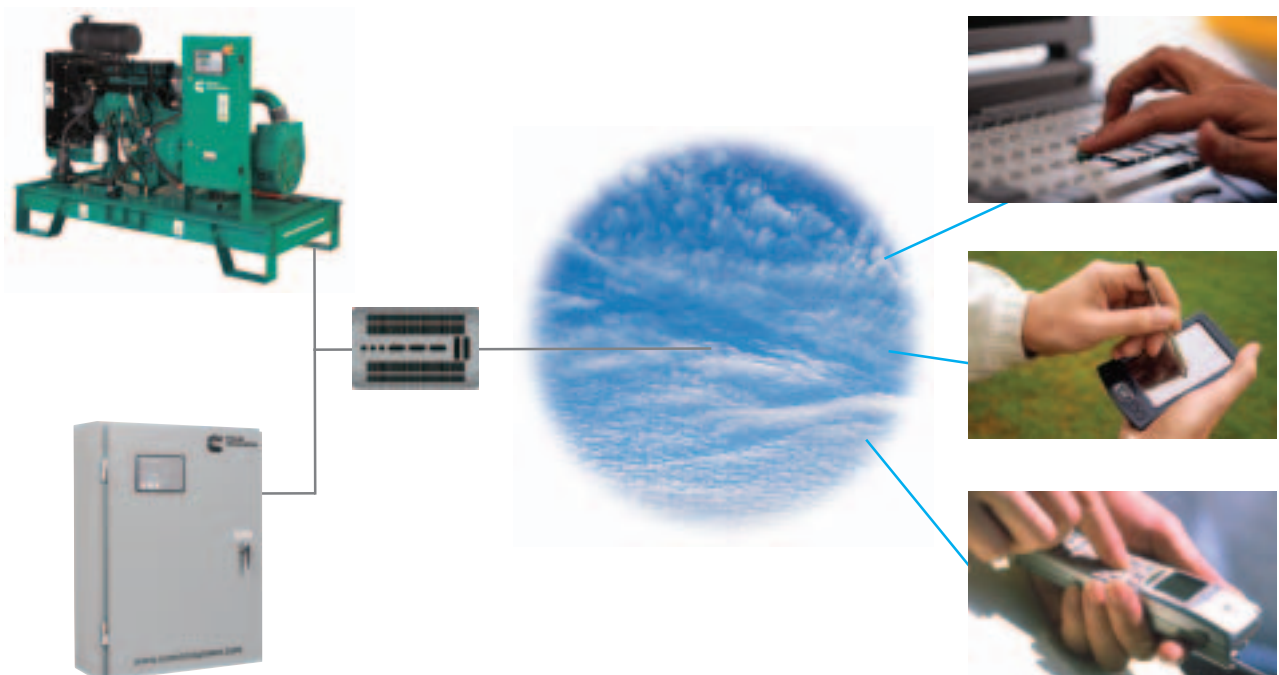
- Communicate via an Ethernet connection, phone line or available wireless configuration
- Connect via an internet browser on a remote PC
- Send alarms to mobile phones, pagers or e-mail addresses
- Display voltage and frequency of each source
- Monitor up to four generators and four networked transfer switches (PowerCommand iWatch 100)
- Monitor up to 30 generator sets and transfer switches (PowerCommand iWatch 200)

PowerCommand Pulse for multiple power systems

PowerCommand Pulse is a full SCADA package. Its enhanced graphical user interface quickly and easily monitors multiple power systems.

PowerCommand Pulse features let you:

- View displays of current alarms as well as alarm logs
- Set three levels of system security
- Fully customise the monitoring and control system
- Monitor up to 60 devices at a site
- Remotely monitor up to 200 sites



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.

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.

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.

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.

For comprehensive conditions of application including COP and LTP, please refer to factory.

Extending your peace of mind with our suite of Extended Warranty Options

Every one of our generator sets is covered by a Base Warranty for round-the-year reliability. To further safeguard your investment, we'll extend that protection to cover of every major component in our generator sets anywhere in the world. You can choose from our suite of Extended Warranty coverages ranging from two years, five years to 10 years to suit your specific needs before the original guarantee comes to an end.

For further details on all Extended Warranty options, please contact your local Cummins Power Generation distributor.

This document lists the main specifications and options of the genset.

1 Standard 0 Optional x Not Available

(1) Forthcoming options

(2) Forthcoming product C2750-C3000 D5 with PowerCommand 3.3

| | Specifications and Options | C8 & C11 (X1.3) | C17-C28 (X2.5) |
|--|---|---|----------------|
| Engine | Mechanical governing | x | 1 |
| | Electronical governing | 1 | 0 |
| | Standard air filter | 1 | 1 |
| | Heavy Duty air filter | 0 | 0 |
| | Water jacket heater 220/240 v | 0 | 0 |
| Radiator | Radiator for 40°C ambient temperature | x | x |
| | Radiator for 50°C ambient temperature | 1 | 1 |
| | Radiator for 55°C ambient temperature | x | x |
| | Antifreeze 25/75 (Ethylene glycol) | 0 | 0 |
| | Antifreeze 50/50 (Ethylene glycol) | 1 | 1 |
| | Delivered without coolant | 0 | 0 |
| | Fan and belt guards | 1 | 1 |
| Alternator | Core guards | 1 | 1 |
| | Alternator single bearing T ² = class H. Isol. = class H | 1 | 1 |
| | Alternator heater | 0 | 0 |
| | Paralleling CT's + 3 function governor | x | x |
| | EBS (Excitation Boost System) | 0 | 0 |
| Control Panel | Exciter voltage regulator – PMG 3 phase sensing | x | x |
| | Powerstart 0500 | 1 | 1 |
| | PCC 1301 | x | x |
| | PCC 2100 | x | x |
| | PCC 3100 | x | x |
| | PCC 3201 | x | x |
| | PowerCommand 1.1 | 0 | 0 |
| | PowerCommand 1.2 | x | x |
| | PowerCommand 2.2 | x | x |
| | PowerCommand 3.3 | x | x |
| | Alternator mounted (rear side) | x | x |
| | Alternator mounted (right side from engine) | x | x |
| Genset | Alternator mounted (left side from engine) | x | x |
| | Pedestal side mounted (left side from alternator) | 1 | 1 |
| | Pedestal end mounted | x | x |
| | Pedestal side mounted (right side from alternator) | x | x |
| | 3 pole Main Circuit Breaker | 0 | 0 |
| | 4 pole Main Circuit Breaker | 1 | 1 |
| | Base Frame with AVM | 1 | 1 |
| | Handling by 2 fork slots integrated | x | x |
| | 4 direction handling by pallet jack and fork slots | 1 | 1 |
| | 4 eyes for lifting (Open units and Powerbox) | 1 | 1 |
| CE compliance | 0 | 0 | |
| Oil | Manual handbook multi language (Eng/Fre/Spa) | 1 | 1 |
| | Manual handbook, specify language | 0 | 0 |
| | 2 years warranty for standby application, 1 year for Prime | 1 | 1 |
| | 5 years extension warranty for Standby application | 0 | 0 |
| | 2 years warranty – Prime power 6,000 hours | 0 | 0 |
| | 10 years major components | x | x |
| | Delivered in Munsell Green under plastic shrinked | 1 | 1 |
| | Oil tap | 1 | 1 |
| | Oil sump pump | x | x |
| | Silencer | Attenuation industrial silencer delivered loose | n/a |
| Attenuation industrial silencer not delivered | | n/a | 0 |
| Attenuation residential silencer delivered loose | | n/a | 0 |
| Attenuation critical silencer | | n/a | x |
| Silencer extension | | n/a | 0 |
| Silencer flexible | | n/a | 0 |
| Stainless bellows | | n/a | x |
| Heat shields on open sets | n/a | 1 | |
| Battery | Starter and charge alternator | 1 | 1 |
| | Starting batteries with cables and bracket | 1 | 1 |
| Fuel | Large fuel tank integrated in the base frame (PVC type) | x | x |
| | Large fuel tank integrated in the base frame (metal type) | 1 | 1 |
| | Fluid catchment | 1 | 1 |
| | Secondary containment | 0 | 0 |
| | Fuel automatic make up | 0 | 0 |
| | Fuel pre-filter/water separator | 1 | 1 |
| Silent enclosure | 500 litres integrated base tank | 0 | 0 |
| | 500 litres free-standing fuel tank delivered loose | x | x |
| | Silent Power canopy | 1 | 0 |
| | Delivered in Munsell Green under plastic shrinked | 1 | 1 |
| | Special colour in replacement of Munsell Green | 0 | 0 |
| | Modular structure in bolted sheet metal | 1 | 1 |
| | Complete process with degreasing before powder coating | 1 | 1 |
| | Fitting with seal to prevent water ingress | 1 | 1 |
| | Numbers of point lift | 1 | 1 |
| | Fixed window for control panel | 1 | 1 |
| | External emergency stop button | 1 | 1 |
| | Residential silencer integrated to the canopy | 1 | 1 |
| Silent Container (PowerBox) | Number of doors with Single key latches | 4 | 4 |
| | PowerBox model (see specific information on page 11) | x | x |
| | CSC approval for shipment | x | x |
| | Residential silencer integrated to the container | x | x |
| | Floor | x | x |
| | Access doors | x | x |
| | Weather louver air outlet | x | x |
| | 24 volts light with timer | x | x |
| | Lighting/European standard outlets 220V | x | x |
| | Fuel tank 500 litres | x | x |
| Fuel tank none | x | x | |
| Fuel tank 500 litres, with fluid catchment | x | x | |
| Fuel tank, 2000 litres (not suitable for critical start) | x | x | |



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