

Spark-Ignited Generator set

125, 150, 175, & 200 kW Standby EPA Emissions



Description

Cummins Power Generation generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary standby applications.

Features

Gas engine - Rugged 6-cyclinder Cummins QSJ8.9G spark-ignited engine delivers reliable power. The electronic air/fuel ratio control provides optimum engine performance and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 2.3 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard cooling package provides reliable running at up to 50 °C (122 °F) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The design has hinged doors to provide easy access for service and maintenance.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor and dealer network.

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|---------|--------|-------------|----------|
| | Standb | Data sheets | |
| Model | kW | kVA | 60 Hz |
| C125N6 | 125 | 156 | NAD-6303 |
| C150N6 | 150 | 188 | NAD-6304 |
| C175N6B | 175 | 218 | NAD-6632 |
| C200N6B | 200 | 250 | NAD-6633 |

| Generator Set Specifications Governor regulation class | | ISO 852 | 8 Part 1 Class | 33 | | | |
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| Voltage regulation, no load to full load | | ± 1.0% | | | | | |
| Random voltage variation | | ± 1.0% | | | | | |
| Frequency regulation | | | Isochron | ous | | | |
| Random frequency variation | | | | @ 60 Hz | | | |
| Radio frequency emissions compliance | | | FCC code title 47 part 15 class B | | | | |
| | • | · - | | | | | |
| Engine Specifi | Callons | | . Tumbaab | d d Afta. | | | |
| Design | | | | arged and After n (4.49 in) | coolea | | |
| Bore Stroke | | | | n (5.69 in) | | | |
| Stroke | | | (543 in ³) | | | | |
| Displacement Cylinder block | | | i, in-line 6 cylin | dor | | | |
| Cylinder block | | | s standard, dua | | nol | | |
| Battery capacity | arnatar | | | | i battery option | лаі | |
| Battery charging alternator | | 100 amp | | <u> </u> | | | |
| Starting voltage Lube oil filter type(s | .\ | | | negative ground | | | |
| Lube on filter type(s | · <u>)</u> | | Spin-on | - 50 °C (122 °F | \ ambiant ass | ling avete | |
| | | | | - 45 °C (122 °F | | | |
| Standard cooling sy | /stem | | | - 50° C (113° F | | | |
| | | | | - 45° C (113° F | | | |
| Rated speed | | | 1800 rpn | | , | g = y = 1. | |
| | oifications | | , | | | | |
| Alternator Spe | Cilications | | l D | - 4 ! · | | | |
| Design | | | s, 4 pole, drip p | root, revolvin | g tiela | | |
| Stator | | 2/3 pitch | | r. | | | |
| Rotor | | | | upled, flexible | | | |
| Insulation system | | | | per NEMA MG | | | |
| Standard temperature rise | | | 248 °F) standby | | - 4: | | |
| Exciter type | | | natch (shunt) w | | otion | | |
| Alternator cooling AC waveform total harmonic distortion | | | Direct drive centrifugal blower | | | | |
| Telephone influence | | l | < 5% no load to full linear load, < 3% for any single harmonic < 50 per NEMA MG1-22.43 | | | | |
| Telephone inilidenc | | | < 3% | NEWA WG 1-22 | 2.43 | | |
| · · | c lactor (THF) | | ~ 370 | | | | |
| | | | l. | | | | |
| Available Volta | _ | | • | | | | |
| Available Volta 1-phase | ages 3-phase | | | | | | |
| | _ | • 120/240 | , | • 277/480 | • 347/6 | 00 | • 127/220 |
| 1-phase • 120/240 | 3-phase • 120/208 | • 120/240 | | • 277/480 | • 347/6 | 00 | • 127/220 |
| 1-phase • 120/240 Generator Set | 3-phase • 120/208 | | | | • 347/6 | | |
| 1-phase • 120/240 | 3-phase • 120/208 | • 120/240 Control PC2.3 with AmpS | Sentry | • 277/480 Enclosure Aluminum encl | | Exhaus | 127/220 t system ust connector NPT |
| 1-phase 120/240 Generator Set Fuel system 125 and 150 kW: Single fuel – natura | 120/208 Options al gas or propane | Control ☐ PC2.3 with AmpS ☐ PC3.3 with Parall | | Enclosure □ Aluminum encl | | Exhaus □ Exhau | t system |
| 1-phase • 120/240 Generator Set Fuel system □ 125 and 150 kW: ○ Single fuel – natura vapor, field selecta | 3-phase • 120/208 Options al gas or propane ble | Control PC2.3 with AmpS PC3.3 with Parall option | leling | Enclosure □ Aluminum encl muffler installe ○ Weather | osures with d – green color | Exhaus Exhaus Exhaus Exhaus | t system ust connector NPT ust muffler mounted tor set application |
| 1-phase • 120/240 Generator Set Fuel system □ 125 and 150 kW: ○ Single fuel – natura | 3-phase • 120/208 Options al gas or propane ble gas or propane | Control ☐ PC2.3 with AmpS ☐ PC3.3 with Parall | leling g meters | Enclosure □ Aluminum encl | osures with d – green color | Exhaus Exhaus Exhaus Exhaus Generat | t system ust connector NPT ust muffler mounted tor set application barrier – elevated genset |
| 1-phase 120/240 Generator Set Fuel system 125 and 150 kW: Single fuel – natura vapor, field selecta Dual fuel – natural vapor, auto change 175 and 200 kW: | 3-phase • 120/208 Options al gas or propane ble gas or propane eover | Control PC2.3 with AmpS PC3.3 with Parall option AC output analog Stop switch – em Auxiliary output re | leling g meters ergency elays (2) | Enclosure □ Aluminum encl muffler installe ○ Weather ○ Sound Leve | osures with d – green color | Exhaus Exhaus Exhaus Exhaus Generat Base Batte | t system ust connector NPT ust muffler mounted tor set application barrier – elevated genset |
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| 1-phase 120/240 Generator Set Fuel system 125 and 150 kW: Single fuel – natura vapor, field selecta Dual fuel – natural vapor, auto change 175 and 200 kW: Single fuel – natura Low fuel gas pressure | 3-phase • 120/208 Options al gas or propane ble gas or propane eover | Control PC2.3 with AmpS PC3.3 with Parall option AC output analog Stop switch – em Auxiliary output re | leling g meters ergency elays (2) rable signal | Enclosure Aluminum enclomuffler installe Weather Sound Leve Sound Leve Winter Cooling system Shutdown – lov | osures with d – green color el 1 el 2 | Exhaus Exhau Exhau Exhau Genera Base Batte Radia Warrant | t system ust connector NPT ust muffler mounted tor set application barrier – elevated genset ty rack, single or dual battery tor outlet duct adapter ty warranty – 2 year / 1000 |
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| 1-phase 120/240 Generator Set Fuel system 125 and 150 kW: Single fuel – natura vapor, field selecta Dual fuel – natural vapor, auto change 175 and 200 kW: Single fuel – natural Low fuel gas pressure Engine Normal or Heavy-duty Shut down – low oil pr | 3-phase • 120/208 Options al gas or propane ble gas or propane ecover al gas warning engine air cleaner | Control PC2.3 with AmpS PC3.3 with Parall option AC output analog Stop switch – em Auxiliary output r Auxiliary configur inputs (8) and rel (8) Alternator 120 °C temperatu | deling meters ergency elays (2) rable signal ay outputs | Enclosure Aluminum enci muffler installe Weather Sound Leve Winter Cooling system Shutdown – lov Warning – low Extension – cc | osures with d – green color el 1 el 2 w coolant level coolant level olant drain options: | Exhaus Exhau Exhau Exhau Generat Base Radia Warrant Base hours | t system ust connector NPT ust muffler mounted tor set application barrier – elevated genset ty rack, single or dual battery tor outlet duct adapter ty warranty – 2 year / 1000 |
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Control System PowerCommand 2.3



An integrated generator set control system providing voltage regulation, engine protection and operator interface.

Power Management - Provides battery monitoring and testing features and smart-starting control system.

InPower™ – PC-based service tool available for detailed diagnostics.

PCCNet RS485 - Network interface (standard) to devices such as remote annunciator for NFPA 110 applications.

Control boards - Potted for environmental protection.

Ambient operation - Suitable for operation in ambient temperatures from -40 °C to +70 °C and altitudes to 13,000 feet (5,000 meters).

AC Protection

- AmpSentry protective relay
- Over current warning and shutdown
- Over and under voltage shutdown
- Over and under frequency shutdown
- Over excitation (loss of sensing) fault
- Field overload
- Overload warning
- Reverse kW shutdown
- Reverse VAR shutdown
- Short circuit protection

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- Low coolant level warning or shutdown
- Low coolant temperature warning
- · High, low and weak battery voltage warning
- Fail to start (overcrank) shutdown
- Fail to crank shutdown
- · Redundant start disconnect
- Cranking lockout
- Sensor failure indication
- Low fuel level warning or shutdown
- Emergency stop
- Fuel-in-rupture-basin warning or shutdown

Operator/display panel

- · Manual off switch
- 320 x 240 Pixels graphic LED backlight LCD with push button access for viewing engine and alternator data and providing setup, controls, and adjustments (English, Spanish, or French).
- LED lamps indicating genset running, not in auto, common warning, common shutdown, manual run mode and remote start
- Suitable for operation in ambient temperatures from -20 °C to +70 °C

Alternator data

- Line-to-line and Line-to-neutral AC volts
- 3-phase AC current
- Frequency
- Total kVa

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Engine speed

Other data

- · Generator set model data
- · Start attempts, starts, running hours
- · Fault history
- RS485 Modbus® interface
- Data logging and fault simulation (requires InPower service tool)

Digital governing (optional)

- Integrated digital electronic isochronous governor
- Temperature dynamic governing

Digital voltage regulation

- · Integrated digital electronic voltage regulator
- 2-phase line-to-line sensing
- Configurable torque matching

Control functions

- Time delay start and cooldown
- Cycle cranking
- PCCNet interface
- (2) Configurable inputs
- (2) Configurable outputs
- Remote emergency stop
- Automatic transfer switch (ATS) control
- · Generator set exercise, field adjustable

Options

- ☐ Auxiliary output relays (2)
- ☐ Remote annunciator with (3) configurable inputs and (4) configurable outputs
- □ PMG alternator excitation
- □ PowerCommand 500/550 for remote monitoring and alarm notification (accessory)
- □ Auxiliary, configurable signal inputs (8) and configurable relay outputs (8)
- □ Digital governing
- □ AC output analog meters (bargraph)
- Color-coded graphical display of:
 - 3-phase AC voltage
 - 3-phase current
 - Frequency
 - kVa
- □ Remote operator panel

For further detail on PC 2.3, see document S-1569 For further detail on PC 3.3, see document S-1570

Ratings Definitions

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):

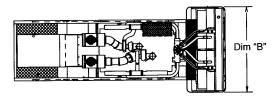
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

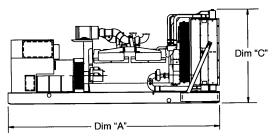
Prime power (PRP):

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.





This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

| Model | Dim "A" | Dim "B" | Dim "C" | Set Weight* wet kg (lbs.) | |
|---------|------------|---------------------------|---------------|---------------------------|--|
| | mm (in.) | mm (in.) | mm (in.) | | |
| | | Open Set | | | |
| C125N6 | 2867 (113) | 1016 (40) | 1415 (56) | 1580 (3483) | |
| C150N6 | 2867 (113) | 1016 (40) | 1415 (56) | 1580 (3483) | |
| C175N6B | 2867 (113) | 1016 (40) | 1478 (58) | 1610 (3543) | |
| C200N6B | 2867 (113) | 1016 (40) | 1478 (58) | 1698 (3735) | |
| | | Weather Protective | Enclosure | | |
| C125N6 | 2867 (113) | 1016 (40) | 1836 (72) | 1661 (3662) | |
| C150N6 | 2867 (113) | 1016 (40) | 1836 (72) | 1661 (3662) | |
| C175N6B | 2867 (113) | 1016 (40) | 1836 (72) | 1691 (3728) | |
| C200N6B | 2867 (113) | 1016 (40) | 1836 (72) | 1779 (3922) | |
| | ; | Sound Attenuated Encl | osure Level 1 | | |
| C125N6 | 3621 (143) | 1016 (40) | 1836 (72) | 1776 (3915) | |
| C150N6 | 3621 (143) | 1016 (40) | 1836 (72) | 1776 (3915) | |
| C175N6B | 3621 (143) | 1016 (40) | 1836 (72) | 1806 (3982) | |
| C200N6B | 3621 (143) | 1016 (40) | 1836 (72) | 1894 (4176) | |
| | 5 | Sound Attenuated Encl | osure Level 2 | | |
| C125N6 | 4061 (160) | 1016 (40) | 1836 (72) | 1791 (3940) | |
| C150N6 | 4061 (160) | 1016 (40) | 1836 (72) | 1791 (3940) | |
| C175N6B | 4061 (160) | 1016 (40) | 1836 (72) | 1821 (4015) | |
| C200N6B | 4061 (160) | 1016 (40) | 1836 (72) | 1909 (4209) | |

^{*} Weights above are average. Actual weight varies with product configuration

Codes and Standards

Codes or standards compliance may not be available with all model configurations - consult factory for availability.



International

Building Code

The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins Power Generation products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.

The generator set is certified to International

Building Code (IBC) 2012.



This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.



The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies.



All low voltage models are CSA certified to product class 4215-01.

U.S. EPA

Engine certified to U.S. EPA SI Stationary Emission Regulation 40 CFR, Part 60.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

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