

Rental Power 100-200 kW



> Specification sheet

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Description

This Cummins Power Generation rental package is a fully integrated mobile power generation system, providing optimum performance, reliability and versatility for standby and prime power applications.



This generator set is designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.



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



The Cascade controller is Listed to UL508 - Category NITW7 for U.S. and Canadian usage. Circuit breaker assemblies are UL489 Listed for 100% continuous operation.

U.S. EPA

Certified to U.S. EPA Mobile Off-Highway Standards.

Features

Cummins diesel engines

- Rugged 4-cycle industrial diesel engine with excellent transient performance.
- Certified to U.S. EPA Mobile Off Highway Standards.
- Lightweight, compact, and excellent fuel economy.
- Equipped with electronic governor.
- Includes jacket water heater for more reliable operation in emergency standby applications.

Engine controls

- The most advanced, reliable, and capable generator set control system available in the market today.
- Integrated generator set governing, voltage regulation, and protection in one easy-to-operate customer interface.

Stamford® alternators

- Designed and built by Cummins Power Generation.
- Oversized alternator for improved motor starting and low temperature rise in prime and continuous applications.
- Permanent magnet excitation for improved performance in cyclic and non-linear load applications.
- 12-lead reconnectable alternator for quick reconnection to a wide array of voltages.

Model	kW rating		Cummins engine model	Sound Level dBa @7m	Generator specification sheet #	Hours of operation (75% Load)	
	Standby	Prime				Standby	Prime
DGDB	100	90	6BT5.9-G6	70	S-1121 50Hz S-1122 60Hz	22	25
DGFA	150	135	6CTA8.3-G	72	S-1125 50Hz S-1126 60Hz	16	17
DGFC	200	180	6CTAA8.3-GI	74	S-1130 50Hz S-1131 60Hz	12	13

Electrical features

- Multiple voltage selector switch (480/277 VAC/3 phase/Wye or 208/120 VAC/3 phase/Wye or 240/120 VAC/3 phase delta).
- Internal 120 VAC shore power distribution panel for powering:
 - Jacket water heater.
 - Battery charger.
 - GFI protected convenience receptacles.
- Battery disconnect switch.
- Safety switch on load connection cover.
- Low fuel level and retention tank fluid detection alarms.

Base frame/fuel tank

Fabricated field style sub-base fuel tank including:

- Fork lift pockets.
- 4-point lift compatible.
- Mechanical direct reading fuel gauge visible from internal tank fill port.
- 4" x 2" square ID mounting fixtures (for distribution equipment and convenience panels).
- Grip-strut steps at both ends.
- 4" pass-through tubes at both ends.
- Complete fluid containment reservoir for engine fluids.
- NFPA 30 compliant fuel tank design.
- Designed with external fuel fill capability
- UL 142 Listed dual wall fuel tank with:
 - Vented retention tank.
 - Retention tank fluid detection alarm.
 - Low fuel level alarm.
 - Vertically extended normal vents to ensure complete filling without spillage.
 - Fittings for AFTS (Automatic Fuel Transfer System).

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Control System



Optional Features Shown

PowerCommand control with AmpSentry™ protection

- The PowerCommand control is an integrated generator set control system providing governing, voltage regulation, engine protection, and operator interface functions.
- PowerCommand controls include integral AmpSentry protection. AmpSentry provides a full range of alternator protection functions that are matched to the alternator provided.
- Controls provided include battery monitoring and testing features, and Smart-Starting control system.
- InPower PC-based service tool available for detailed diagnostics.
- Available with Echelon LonWorks™ network interface.
- NEMA 3R enclosure.
- Suitable for operation in ambient temperatures from -40C to +70C, and altitudes to 13,000 feet (5000 meters).
- Prototype tested; UL, CSA, and CE compliant.

AmpSentry AC protection <ul style="list-style-type: none"> • Overcurrent and short circuit shutdown • Overcurrent warning • Single & 3-phase fault regulation • Over and under voltage shutdown • Over and under frequency shutdown • Overload warning with alarm contact • Reverse power and reverse Var shutdown • Excitation fault 	Engine protection <ul style="list-style-type: none"> • Overspeed shutdown • Low oil pressure warning and shutdown • High coolant temperature warning and shutdown • High oil temperature warning (optional) • Low coolant level warning or shutdown • Low coolant temperature warning • High and low battery voltage warning • Weak battery warning • Dead battery shutdown • Fail to start (overcrank) shutdown • Fail to crank shutdown • Redundant start disconnect • Cranking lockout • Sensor failure indication 	Operator interface <ul style="list-style-type: none"> • Off/manual/auto mode switch • Manual run/stop switch • Panel lamp test switch • Emergency stop switch • Alpha-numeric display with pushbutton access, for viewing engine and alternator data and providing setup, controls, and adjustments • LED lamps indicating genset running, not in auto, common warning, common shutdown • (5) configurable LED lamps • LED bargraph AC data display (optional)
Alternator data <ul style="list-style-type: none"> • Line-to-line and line-to-neutral AC volts • 3-phase AC current • Frequency • Total and individual phase kW and kVA 	Engine data <ul style="list-style-type: none"> • DC voltage • Lube oil pressure • Coolant temperature • Lube oil temperature (optional) 	Other data <ul style="list-style-type: none"> • Genset model data • Start attempts, starts, running hours • KW hours (total and since reset) • Fault history • Load profile (hours less than 30% and hours more than 90% load) • System data display (optional with network and other PowerCommand gensets or transfer switches)
Governing <ul style="list-style-type: none"> • Integrated digital electronic isochronous governor • Temperature dynamic governing • Smart idle speed mode • Glow plug control (some models) 	Voltage regulation <ul style="list-style-type: none"> • Integrated digital electronic voltage regulator • 3-phase line to neutral sensing • PMG (optional) • Single and three phase fault regulation • Configurable torque matching 	Control functions <ul style="list-style-type: none"> • Data logging on faults • Fault simulation (requires InPower) • Time delay start and cooldown • Cycle cranking • (4) Configurable customer inputs • (4) Configurable customer outputs • (8) Configurable network inputs and (16) outputs (with optional network)
Options		
<input type="checkbox"/> Power transfer control <input type="checkbox"/> Analog AC meter display <input type="checkbox"/> Thermostatically controlled space heater	<input type="checkbox"/> Key-type mode switch <input type="checkbox"/> Ground fault module <input type="checkbox"/> Engine oil temperature <input type="checkbox"/> Auxiliary relays (3)	<input type="checkbox"/> Echelon LonWorks interface <input type="checkbox"/> Digital input and output module(s) (loose) <input type="checkbox"/> Remote annunciator (loose)

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Ratings definitions

Standby:

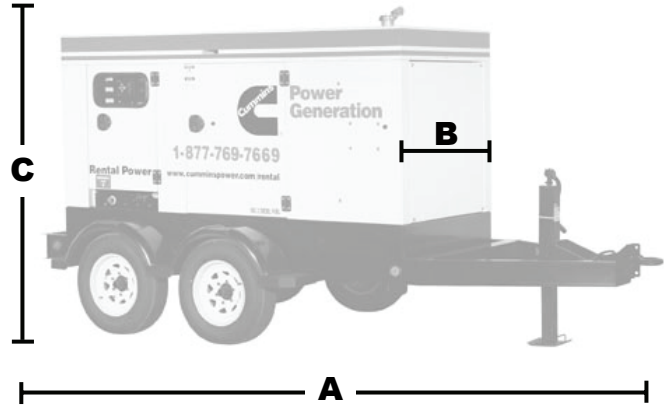
Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. Nominally rated. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271, and BS5514.)

Prime (unlimited running time):

Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capability is available for limited time. Nominally rated. (Equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514.)

Base load (continuous)

Applicable for supplying power continuously to a load for this rating. Nominally rated. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO8528, ISO3046, AS2789, DIN6271, and BS5514.)



Dimensions

Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Weight w/o fuel kg (lbs)	Weight with fuel kg (lbs)	Fuel capacity liters (gal)
DGDB	4242 (167)	1067 (42)	2464 (97)	2828 (6235)	3246 (7158)	454 (120)
DGFA	4242 (167)	1067 (42)	2464 (97)	3135 (6911)	3553 (7834)	454 (120)
DGFC	4242 (167)	1067 (42)	2464 (97)	3452 (7610)	3870 (8533)	454 (120)

Note: All weights and dimensions are without trailer.

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