Gaseous Fuel Generator Set GTA50 Engine Series



Specification Sheet Model GFLB EPA SI NSPS Compliant Capable

NOTE: This engine is EPA compliant capable. A site validation emission test must be performed by the user per SI NSPS code requirements. This Generator Set must be operated as outlined in the O&M manual.

Model GFLB Ratings					
Regulated					
Speed/Frequency	1800 rpm/60 Hz				
Rating	Standby				
Compression Ratio	8.5:1				
Natural Gas Rating @ 0.8 P.F.*	650 kW (813 kVa)				
Propane Rating @ 0.8 P.F.	N/A				

NOTE: 54 °C (130 °F) or lower water temperature to the aftercooler.

All gases such as field, digester, and sewage gas will require an analysis of the specified gas and pre-approval from the factory. Consult your Cummins Distributor for details.

Description

The Cummins NPower GF-series commercial Generator Set (GenSet) is a fully integrated power generation system providing optimum performance, reliability, and versatility for stationary standby power applications.

A primary feature of the GF-series GenSet is strong motor-starting capability and fast recovery from transient load changes. The torque-matched system includes a heavy-duty Cummins 4-cycle spark-ignited engine, an AC alternator with high motor-starting kVA capacity, and an electronic voltage regulator with three-phase sensing for precise regulation under steady-state or transient loads. The GF-series GenSet accepts 100% of the nameplate standby rating within ten seconds per NFPA 110.

The standard PowerCommand[®] digital electronic control is an integrated system that combines engine and alternator controls for high reliability and optimum GenSet performance.

Optional GenSet housing and component heaters shield the GenSet from extreme operating conditions.* Environmental concerns are addressed by low exhaust emission engines, sound-attenuated housings, and exhaust silencers. A wide range of options, accessories, and services are available to allow configuration to your specific power generation needs.

Every production unit is factory tested at rated load and power factor. This testing includes demonstration of rated power and single-step rated load pickup.

Cummins NPower manufacturing facilities exemplify quality standards, emphasizing our commitment to high quality in the design, manufacture, and support of our products.

GenSets are designed, manufactured, and tested to relevant codes and standards listed below.

Features

Cummins Heavy-Duty Engine - Rugged 4-cycle industrial spark-ignited engine delivers reliable power, low emissions, and quick response to load changes.

UL 2200 Certification - This Cummins GenSet has been designed, tested, and certified to UL 2200 standards.

Alternator - Several alternator sizes offer selectable motor-starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads, fault-clearing short-circuit capability, and class H insulation. The alternator electrical insulation system is UL1446 Listed. The alternator is certified to CSA 22.2 and UL 1004 Listed.

AmpSentry™ - A comprehensive monitoring and control system integral to the PowerCommand® Control System, AmpSentry™ guards the electrical integrity of the alternator and power system by providing protection against a wide array of fault conditions in the GenSet or in the load. AmpSentry™ may be utilized in lieu of a main line circuit breaker.

Control Systems - The PowerCommand® electronic control is standard equipment and provides total GenSet system integration, including automatic remote starting/stopping, precise voltage regulation, alarm and status message display, output metering, and auto-shutdown at fault detection. The PowerCommand® control is UL508 Listed, as well as NFPA 110 compliant in standalone applications. The controls are certified to CSA C282-M1999 and CSA 22.2 No.14 M91.

Warranty and Service - All Cummins NPower GenSets are backed by a comprehensive one-year warranty program and supported by a worldwide network of over 200 locations to assist with warranty, service, parts, and planned maintenance support.

* Cold weather heaters are recommended when ambient temperatures are below 0 °C (32 °F).



^{*} Per EPA SI NSPS, rating based on commercial pipeline natural gas.

Generator Set

The general specifications provide representative configuration details. Consult the outline drawing for actual installation design specifications.

	Specifications - General						
Unit Width	2515 mm (101 in) Open set						
Unit Height	2744 mm (110 in) Open set						
Unit Length	5182 mm (207 in) Open set						
Unit Wet Weight *	10241 to 11181 kg (22530 to 24598 lbs) - Dependent on selected alternator. Open set						
Rated Speed	1800 rpm						
Voltage Regulation, No Load to Full Load	±1%						
Random Voltage Variation	±1% (Three phase only.)						
Frequency Regulation	Isochronous						
Random Frequency Variation	±0.5%						
Radio Frequency Interference	Optional PMG excitation operates in compliance with BS800 and VDE level G and N. Addition of RFI protection kit allows operation per MIL-STD-461 and VDE level K.						

^{*} Weight does not include silencer, catalyst, batteries, circuit breakers, or optional equipment.

Rating Definitions

Standby Rating: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Standby Power rating. This rating should be applied where reliable utility power is available. A Standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating. Standby ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency. (AEB 26.02)

Site Derating Factors

See engine data sheet FR 60104 for altitude and ambient derate curves.

See GenSet enclosure specification sheet for other applicable derates.

Data represents gross engine performance capabilities obtained and corrected in accordance with SAEJ1349 conditions of 100 kPa (29.61 in. Hg) barometric pressure [110 m (361 ft.) altitude], 25 °C (77 °F) inlet air temperature, and 100 kPa (.34 in. Hg) water vapor pressure using dry processed natural gas fuel with 905 BTU per standard cubic foot (33.72 kJ/L) lower heating value. Deration may be required due to altitude, temperature, or type of fuel. Consult your local Cummins Distributor for details.

Electrical System Connection

Warning: Backfeed to a utility system can cause electrocution and/or property damage. Do not connect GenSets to any building electrical system except through an approved device or after the building main disconnect is open. Neutral connection must be bonded in accordance with National Electrical Code.

Fuel System

Standard Carburetor – IMPCO

Low Pressure Dry Processed Natural Gas – (905 BTU/ft.³ L.H.V.)

The preceding pipe size is only a suggestion and piping may vary with temperature, distance from fuel supply, and application of local codes. Gas must be available at adequate volume and pressure for engine at the regulator.

The GenSet (engine) performance is based on processed natural gas fuel with 905 BTU per standard cubic foot (33.72 kJ/L) lower heating value. Variations in fuel composition and/or supply pressure must be eliminated during steady state operation. Locate the gas regulator as near to the engine as possible. Some systems may need an accumulator or other device(s) for startup or unstable conditions. Contact the fuel supply utility for details.

UL 2200-certified GenSets comply with NFPA 37 requirements, but do not include visual indication (provided by others, if required) on shutoff valves.



Engine

Cummins heavy-duty spark-ignited engines use advanced combustion technology for reliable and stable power, low emissions, and fast response to sudden load changes. Electronic governing is standard for applications requiring constant (isochronous) frequency regulation such as Uninterruptible Power Supply (UPS) systems, non-linear loads, or sensitive electronic loads. Optional coolant heaters are recommended for all emergency standby installations or for any application requiring fast load acceptance after start-up.

Spec	ificat	ions -	Engine
Opou			g

Base EngineCummins Model GTA50 CCDisplacement50.3 L (3069 in³)Overspeed Limit2100 rpmRegenerative Power24 kW

Cylinder Block ConfigurationCast iron with replaceable wet cylinder linersCranking Current1000 CCA at ambient temperature of 0 °C (32 °F)

Battery Charging Alternator43 ampsBattery Type8D (x4)Starting Voltage24-volt, negative groundStandard Cooling SystemSee derates on Page 2

Lube Oil Filter TypesFive spin-on canisters-combination full flow with bypass

Lube Oil Filter Types Five spin-on canisters-combination full flow with bypass							
Fuel Consumption							
STANDBY LOAD	1/4	1/2	3/4		Full		
NG Rating kW	Rating kW		325	488		650	
Natural Gas CF	-H	2600	5675	8514		11,352	
Propane Vapor CF	-H	N/A	N/A 1		N/A N/A		
Propane Liquid GPH		N/A	N/A	1	N/A	N/A	
Cooling	Cooling			Full Load			
Jacket Water Heat Rejection	to Cool	ant	831 kW (47259 BTU/min)				
Aftercooler Heat Rejection to	Coolan	t		84 kW	(4777 BT	U/min)	
Heat Rejection to Room				173 kW	(9839 BT	U/min)	
Jacket Water Coolant Capaci	ity (w/ra	diator)		326 L	(85 USG)		
Jacket Water Coolant Flow R	Rate		181	3 L/min	(471 GPM	1)	
Aftercooler Coolant Capacity	(w/radia	ator)	182 L (47				
Aftercooler Coolant Flow Rate	e		420 L/min (109			1)	
Jacket Water Max Coolant Fr	riction H	ead	34 kPa (5 psi)		(5 psi)		
Jacket Water Max Coolant St	tatic He	ad	18.3 m (60 ft)				
Radiator Fan Load			54 kW (72 hp)				
					<u> </u>		
Air					Load		
			77	Full		1)	
Air	ction			Full 4 L/sec	Load	•	
Air Combustion Air	ction		381 m	Full 4 L/sec Im H ₂ O	Load (1641 cfm	D)	
Air Combustion Air Maximum Air Cleaner Restric	ction		381 m 131	Full 4 L/sec Im H ₂ O	(1641 cfm (15 in H ₂ 0 (2776 cfm	D)	
Air Combustion Air Maximum Air Cleaner Restric Alternator Cooling Air		at Radiator (static)	381 m 131 2784	Full 4 L/sec Im H ₂ O 0 L/sec	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cfm	D) n) m)	
Air Combustion Air Maximum Air Cleaner Restric Alternator Cooling Air Radiator Cooling Air		at Radiator (static)	381 m 131 2784	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cfm	D) n) m)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest		at Radiator (static)	381 m 131 2784 12.7 m	Full 4 L/sec 1m H ₂ O 0 L/sec 5 L/sec 1m H ₂ O Full	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust	triction a		381 m 131 2784 12.7 m	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec	1 Load (1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust Gas Flow (Full Load)	triction a	ack	381 m 131 2784 12.7 m 289	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec 662 °C	1 Load (1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂) I Load	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust Gas Flow (Full Load) Maximum Gas Temperature -	triction a	ack	381 m 131 2784 12.7 m 289	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec 662 °C mm Hg	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂) Load (6127 cfm (1224 °F)	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust Gas Flow (Full Load) Maximum Gas Temperature - Total System Back Pressure Catalyst Back Pressure Silencer Back Pressure (Fact	triction a	ack	381 m 131 2784 12.7 m 289 51 7.4	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec 662 °C mm Hg mm Hg	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂) Load (6127 cfm (1224 °F) (2 in Hg)	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust Gas Flow (Full Load) Maximum Gas Temperature - Total System Back Pressure Catalyst Back Pressure	triction a	ack	381 m 131 2784 12.7 m 289 51 7.4	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec 662 °C mm Hg mm Hg	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂) (Load (6127 cfm (1224 °F) (2 in Hg) (.29 in Hg	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust Gas Flow (Full Load) Maximum Gas Temperature - Total System Back Pressure Catalyst Back Pressure Silencer Back Pressure (Fact	triction a	ack	381 m 131 2784 12.7 m 289 51 7.4 13	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec 662 °C mm Hg mm Hg mm Hg Full	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂) (6127 cfm (1224 °F) (2 in Hg) (.29 in Hg	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust Gas Flow (Full Load) Maximum Gas Temperature - Total System Back Pressure Catalyst Back Pressure Silencer Back Pressure (Fact Engine	- Dry St - Allowed	ack	381 m 131 2784 12.7 m 289 51 7.4 13	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec 662 °C mm Hg mm Hg mm Hg Full	(1641 cfm (15 in H ₂ 0 (2776 cfm (59031 cf (0.5 in H ₂) (6127 cfm (1224 °F) (2 in Hg) (.29 in Hg (.51 in Hg	D) n) m) O)	
Air Combustion Air Maximum Air Cleaner Restrict Alternator Cooling Air Radiator Cooling Air Maximum Total External Rest Exhaust Gas Flow (Full Load) Maximum Gas Temperature - Total System Back Pressure Catalyst Back Pressure Silencer Back Pressure (Fact Engine Gross Engine Power Output	- Dry St - Allowed	ack	381 m 131 2784 12.7 m 289 51 7.4 13	Full 4 L/sec Im H ₂ O 0 L/sec 5 L/sec Im H ₂ O Full 0 L/sec 662 °C mm Hg mm Hg Full 2 kWm 89 kPa	(1641 cfm (15 in H ₂ C (2776 cfm (59031 cf (0.5 in H ₂) (Load (6127 cfm (1224 °F) (2 in Hg) (.29 in Hg (.51 in Hg)	D) n) m) O)	





Alternator

Several alternators are available for application flexibility based on the required motor-starting kVA and other requirements. Larger alternator sizes have lower temperature rise for longer life of the alternator insulation system. In addition, larger alternator sizes can provide a cost-effective use of engine power in across-the-line motor-starting applications and can be used to minimize voltage waveform distortion caused by non-linear loads.

Single-bearing alternators couple directly to the engine flywheel with flexible discs for drive train reliability and durability. No gear reducers or speed changers are used. Two-thirds pitch windings eliminate third-order harmonic content of the AC voltage waveform and provide the standardization desired for paralleling of GenSets.

Separately Excited Permanent Magnet Generator (PMG) System - This option uses an integral PMG to supply power to the voltage regulator. A PMG system generally has better motor-starting performance, lower voltage dip upon load application, and better immunity from problems with harmonics in the main alternator output induced by non-linear loads. This option is recommended for use in applications that have large transient loads, sensitive electronic loads (especially UPS applications) or harmonic content, or that require sustained short-circuit current (sustained three-phase short circuit current at approximately three times rated for ten seconds).

Alternator Sizes - On any given model, various alternator sizes are available to meet individual application needs. Alternator sizes are differentiated by maximum winding temperature rise at the GenSet standby rating when operated in a 40 °C (104 °F) ambient environment. Not all temperature rise selections are available on all models. For other temperatures not listed below, contact your local Cummins distributor. Lower temperature rise is accomplished using larger alternators at lower current density. Lower temperature rise alternators have higher motor-starting kVA and lower voltage dip upon load application, and they are generally recommended to limit voltage distortion and heating due to harmonics induced by non-linear loads. An alternator space heater is recommended to inhibit condensation.

· ·	
Design	Brushless, 4-pole, drip-proof revolving field
Stator	2/3 pitch
Rotor	Direct-coupled by flexible disc
Insulation System	Class H per NEMA MG1-1.65 or better
Standard Temperature Rise *	125 °C
Exciter Type	Permanent Magnet Generator (PMG)
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct-drive centrifugal blower
AC Waveform Total Harmonic Distortion	<5% total no load to full linear load

Specifications - Alternator

Telephone Influence Factor (TIF)
Telephone Harmonic Factor (THF)

Direct-drive centrifugal blower <5% total no load to full linear load <3% for any single harmonic <50 per NEMA MG1-22.43

Maximum kVa Voltage Ranges Motor Starting Voltage (90% Sustained Alternator Datasheet @ 60 Hz Voltage) 120/208 Thru 139/240 3866 ADS311 **Broad Range** 240/416 Thru 277/480 80 °C 277/480 480 3313 ADS310 Alternator 347/600 600 3313 ADS310 120/208 Thru 139/240 **Broad Range** 2944 ADS309 240/416 Thru 277/480 105 °C ADS309 277/480 480 2944 Alternator 347/600 600 2944 ADS309 120/208 Thru 139/240 **Broad Range** 2944 ADS309 240/416 Thru 277/480 120 °C 277/480 480 2429 ADS308 Alternator 347/600 2429 ADS308

^{*} For UL1004 ratings, refer to temperature rise at 120 °C or below, and ambient temperature up to 40 °C

	Amp Rating at Full Load Voltage								
Full Load Voltage	120/240 (1 Ph)	120/208	127/220	139/240	220/380	240/416	254/440	277/480	347/600
Amps	N/A	2255	2132	1955	1235	1128	1066	977	782



Control System



PowerCommand® Control 3.3

The PowerCommand[®] Control is an integrated GenSet control system providing voltage regulation, engine protection, operator interface and isochronous governing (optional). The integration of all functions into a single control system provides enhanced reliability and performance compared to conventional GenSet control systems. Prototype tested; UL, CSA, and CE compliant. The

PowerCommand® Control system includes:

Environment

- Ambient operating temperature from:
 -40 to +70 °C (-40 to 158 °F)
 HMI from -20 to +70 °C (-4 to 158 °F)
- Operating altitude up to 5000 m (13,000 ft.)

Feature

- Control function provides battery monitoring and testing features and smart starting control system.
- Three phase sensing, full wave rectified voltage regulation, with a PWM output for stable operation with all load types.
- AmpSentry[™] protection providing a full range of alternator protection functions matched to the alternator provided.
- Extended Paralleling (Peak Shave/Base Load) regulates the GenSet real and reactive power output while paralleled to the utility. Power can be regulated at either the GenSet or utility bus monitoring point.
- PowerCommand[®] Control Network (PCCNet) and Modbus[®] interface for interconnecting to customer equipment.

Digital Voltage Regulation

- Configurable torque matching.
- 3-phase, 4 wire line-to-line sensing.
- · Integrated digital electronic voltage regulator.

Digital Governing

- Temperature dynamic governing.
- · Integrated digital electronic isochronous governing.

Engine Data

- DC voltage.
- · Engine speed and coolant temperature.
- 24 VDC battery configuration.
- Adjustable lube oil pressure.
- Adjustable engine idle speed.
- · Lube oil pressure and temperature.
- · Comprehensive FAE data (where applicable).

Alternator Data

- 60 Hz frequency.
- Three Phase AC current.
- Alternator heater status.
- Winding and bearing temperatures.
- AC: Single or three-phase line-to-line or line-to-neutral.
- Total and individual phase power factor, kW and kVA.
- Digital output voltage regulation within +/-1.0% any loads between no load to full. Drift = no more than +/-1.5% for 40 °C (104 °F) temperature change in 8 hours.

AmpSentry™ Alternator Protection

- Overload and over current warning.
- · Field overload shutdown.
- AmpSentry[™] protective relay.
- · Over current and short circuit shutdown.
- · Over and under voltage shutdown.
- · Over and under frequency shutdown.
- Reverse power and reverse var shutdown.
- Single and three phase fault current regulation.

Engine Protection

- Cranking lockout.
- · Overspeed shutdown.
- Sensor failure indication.
- Low fuel level warning or shutdown.
- Fail to start (overcrank) and fail to crank shutdown.
- Full authority electronic engine protection.
- Battery voltage monitoring, protection, and testing.
- Engine vitals oil temperature and pressure, coolant temperature and levels, warning and shutdowns.

Operator/Display Panel

- Multiple language support.
- · Sync check relay.
- · Isochronous kW and kVar load sharing.
- · Load govern control for utility paralleling.
- Extended paralleling (baseload/peak shave) mode.
- Displays paralleling breaker status.
- 320 x 240 pixels graphic LED backlight LCD.
- Provides direct control of the paralleling breaker.
- Alphanumeric display with pushbutton circuit breaker position indication and manual control.
- Auto, manual, start, stop, fault reset, and lamp test/panel lamp switches
- LED lamps indicating GenSet running, remote start, not in auto, common shutdown, common warning, manual run mode, auto mode and stop.
- First start sensor system selects first GenSet to close to bus.
- Phase lock loop synchronizer with voltage matching.
- Digital power transfer control for use with breaker pair to provide open transition, closed transition, ramping closed transition, peaking, and base load functions.

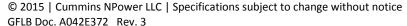
Control Functions

- Data logging and cycle cranking.
- Load shed.
- Remote emergency stop.
- · Time delay start and cooldown.
- Configurable inputs and outputs (4).
- Real time clock for fault and event time stamping.
- · Exerciser clock and time of day start/stop.

Other Display Data

- · GenSet hardware data.
- Fault history up to 32 events.
- Start attempts, starts, running hours, kW hours.
- Data logs (some information requires InPower™ and fault simulation).
- Engine data operational data, monitored status, functions, auxiliary system inputs, etc.
- Service adjustment screens operational, customer interface, configurable set up, calibration, etc.
- Load profile (operating hours at % load in 5% increments).
- Optional PowerCommand[®] 3.3 control with Masterless Load Demand (MLD).





Generator Set Options

Engine

- 240/480 V, 4000 W coolant heaters (2)
- 240 V. 300 W lube oil heater

Cooling System

- Heat exchanger cooling
- · Remote radiator cooling

Fuel System

- Flexible fuel connector
- Fuel strainer

Exhaust System

- GenSet mounted muffler (enclosure models only)
- Catalyst Removal (export option)

Alternator (see Page Four for available options)

Generator Set

- AC entrance box
- Batteries
- Battery charger
- · Main line circuit breaker
- PowerCommand® Network Communication Module (NCM)
- Modbus® to BACnet™ Module
- Weather protective enclosure (F001) with silencer
- Level I enclosure w/silencer
- Level II enclosure w/silencer
- Audible Alarm
- Remote Drains
- Oil Maintainer
- Remote annunciator panel
- · Spring isolators
- Two-year standby warranty
- Five-year basic power warranty

Available Products and Services

A wide range of Cummins Power Generation products and services is available to match your power Generation System requirements. Contact your local Cummins Distributor for more information at www.cumminsnpower.com.

- · Diesel and Spark-Ignited Generator Sets
- · Transfer Switches
- · Bypass Switches
- · Parallel Load Transfer Equipment

- · Digital Paralleling Switchgear
- PowerCommand® Network and Software
- Distributor Application Support
- Planned Maintenance Agreements

Warranty

All components and subsystems are covered by an express limited one-year warranty. Other optional and extended factory warranties and local distributor maintenance agreements are available. Contact your local Cummins Distributor/Dealer for more information at www.cummins.power.com.

Certifications



CSA Group tests products under a formal process to ensure that they meet the safety and/or performance requirements of applicable standards. This GenSet is certified to: CSA 22.2 No. 100 Motors and Generators; CSA 22.2 No. 0.4-044 Bonding of Electrical Equipment; CSA 22.2 No. 14 Industrial Control Equipment; and CSA 22.2 No. 0 General Requirements - Canadian Electrical Code, Part II.



The Prototype Test Support (PTS) program verifies the performance integrity of the GenSet design. Products bearing the PTS symbol have been subjected to demanding tests in accordance with NFPA 110 to verify the design integrity and performance under both normal and abnormal operating conditions. These conditions include: short circuit, endurance, temperature rise, torsional vibration, and transient response, as well as full load pickup.



Underwriters Laboratory (UL) is a world leader in product safety testing and certification. This GenSet is certified to UL2200 as open set, weather enclosure, and sound-attenuated enclosure configurations. The generator is certified to UL1004. The PowerCommand® Control System is certified to UL508.

Manufactured By





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