

# Cat® DG200 GC

## SPARK-IGNITED GENERATOR SETS



Image shown may not reflect actual configuration.

### SPECIFICATIONS

#### Engine

Engine Model	14.2 L, In-line 6, 4-cycle
Bore x Stroke	135 mm x 165 mm (5.31 in x 6.50 in)
Displacement	14.17 L (864.71 in³)
Compression Ratio	9.5:1
Aspiration	Turbocharged-Aftercooled
Fuel System	Carburetor, Down Draft
Governor	Electronic
Fuel Type	Natural Gas
Emission Certifications	U.S. EPA Certified for Non-Emergency
Rated Engine Speed	1800 rpm

#### General

Cylinder No.	6
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#### Engine Governing

Frequency Regulation (Steady State)	+/- 0.25%
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#### Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-flow Cartridge
Crankcase Capacity – L (qts)	34.3 (36.2)

### ENGINEERED OPTIONS

<b>Engine System</b>	Coolant Heater Ball Valves
	Fluid Containment Pans
<b>Alternator System</b>	3rd Breaker Systems
<b>Generator Set</b>	Special Testing
	Battery Box

### POWER RATINGS – NATURAL GAS

Natural Gas		
Single-Phase 120/240 VAC @1.0pf	200 kW	Amps: 833
Three-Phase 120/208 VAC @0.8pf	200 kW	Amps: 694
Three-Phase 120/240 VAC @0.8pf	200 kW	Amps: 601
Three-Phase 277/480 VAC @0.8pf	200 kW	Amps: 301
Three-Phase 346/600 VAC @0.8pf	200 kW	Amps: 241

### Standby/Demand Response

200 ekW

250 kVA – 60 Hz

**UL2200:** Evaluated by ETL to UL Standard for Safety UL2200

**CSA:** Designed in accordance to CSA22.2 standards

**NFPA:** Facilitates compliance with NFPA110

**Type 10:** Product was tested to NFPA110 Type 10

#### Cooling System

Cooling System Type	Pressurized Closed Recovery
Water Pump Flow – gpm (lpm)	94 (356)
Coolant Heater Standard Voltage/Wattage	120 V/1500 W

#### Fuel System

Fuel Type	Natural Gas
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard (Dual)
Operating Fuel Pressure (Standard)	7" – 11" H <sub>2</sub> O

#### Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Voltage	(2) 12 VDC

<b>Enclosure</b>	Motorized Dampers
	Enclosure Ambient Heaters
<b>Control System</b>	EMCP 4.2B
	Battery Disconnect Switch

## STARTING CAPABILITIES (sKVA)

		sKVA vs. Voltage Dip											
		480 VAC						208/240 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	200	187	280	373	467	560	653	140	210	280	350	420	490
Upsize	250	263	395	527	658	790	922	197	296	395	494	593	692
Upsize	300	303	454	605	757	908	1059	227	341	454	568	681	794

## FUEL CONSUMPTION RATES\*

Natural Gas – ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	
Percent Load	Standby/Demand Response
25%	900 (25.5)
50%	1543 (43.7)
75%	2083 (59.0)
100%	2571 (72.8)

\*Fuel supply installation must accommodate fuel consumption rates at 100% load.

## COOLING

Standby/Demand Response		
Air Flow (inlet air combustion and radiator)	ft <sup>3</sup> /min (m <sup>3</sup> /min)	9432 (267)
Coolant System Capacity	gal (Liters)	6.1 (23.1)
Heat Rejection to Coolant	BTU/hr	670,280
Max. Operating Air Temp on Radiator	°F (°C)	122 (50)
Max. Operating Ambient Temperature (Before Derate)	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H <sub>2</sub> O	0.5

## COMBUSTION AIR REQUIREMENTS

Standby/Demand Response		
Flow at Rated Power	cfm (m <sup>3</sup> /min)	432 (12.2)

## ENGINE

Standby/Demand Response		
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	304
BMEP	PSI	179

\*\*Refer to "Emissions Data Sheet" for maximum bhp for EPA and SCAQMD permitting purposes.

## EXHAUST

Standby/Demand Response		
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)	1499 (42.4)
Maximum Recommended Backpressure	inHg	0.75
Exhaust Temp (Rated Output)	°F (°C)	1384 (751)
Exhaust Outlet Size (Open Set)	in	3.5" ID Flex (no muffler)

Deration – For power deration rates reference, please consult Cat LEHE1699-00.

# LET'S DO THE WORK.™

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