

# Cat® DG350 GC

## SPARK-IGNITED GENERATOR SETS



Image shown may not reflect actual configuration.

## Standby/Demand Response

### 350 ekW

438 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

## SPECIFICATIONS

### Engine

Engine Model	21.9 L, V12, 4-cycle
Bore x Stroke	128 mm x 142 mm (5.03 in x 5.6 in)
Displacement	21.9 L (1336.42 in <sup>3</sup> )
Compression Ratio	10:1
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.	12
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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	Twin Full-flow with Intercooler
Crankcase Capacity – L (qts)	30 (31.7)

### Cooling System

Cooling System Type	Pressurized Closed Recovery
Water Pump Flow – gpm (lpm)	211 (800)
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

## 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

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

## POWER RATINGS – NATURAL GAS

Natural Gas		
Three-Phase 120/208 VAC @0.8pf	350 kW	Amps: 1216
Three-Phase 120/240 VAC @0.8pf	350 kW	Amps: 1053
Three-Phase 277/480 VAC @0.8pf	350 kW	Amps: 527
Three-Phase 347/600 VAC @0.8pf	350 kW	Amps: 421

## 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	350	387	581	775	968	1162	1356	345	570	835	1100	1450	1710
Upsize 1	555	457	686	914	1143	1371	1600	–	–	–	–	–	–
Upsize 2	642	471	707	943	1179	1414	1650	543	814	1086	1357	1629	1900

## FUEL CONSUMPTION RATES\*

Natural Gas – ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	
Percent Load	Standby/Demand Response
25%	1732 (49)
50%	2598 (73.6)
75%	3463 (98.1)
100%	4328 (122.6)

\*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)	25,100 (711)
Coolant Flow per Minute	gpm (lpm)	211 (800)
Coolant System Capacity	gal (Liters)	23 (87)
Heat Rejection to Coolant	BTU/hr	1,102,122
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)	750 (21)

## ENGINE

		Standby/Demand Response
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	620
BMEP	PSI	123

\*\*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)	2720 (77)
Maximum Recommended Backpressure	inHg	0.75
Exhaust Temp (Rated Output)	°F (°C)	1350 (732)
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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