Cat® DG300 GC SPARK-IGNITED GENERATOR SETS





Image shown may not reflect actual configuration.

SPECIFICATIONS

Engine

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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 in ³)
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
Engine Governing	
Frequency Regulation (Steady State)	+/- 0.25%
Lubrication System	
Oil Pump Type	Gear
Oil Filter Type	Full-flow Cartridge
Crankcase Capacity — L (qts)	34.3 (36.2)

ENGINEERED OPTIONS

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

Standby/Demand	Response
300 ekW	

375 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

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Cooling System Type	Pressurized Closed Recovery
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 ₂ 0
Engine Electrical System	
System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Voltage	(2) 12 VDC
	

Enclosure	Motorized Dampers		
	Enclosure Ambient Heaters		
Control System	EMCP 4.2B		
	Battery Disconnect Switch		

POWER RATINGS – NATURAL GAS

	Natur	al Gas
Three-Phase 120/208 VAC @0.8pf	300 kW	Amps: 1041
Three-Phase 120/240 VAC @0.8pf	300 kW	Amps: 902
Three-Phase 277/480 VAC @0.8pf	300 kW	Amps: 451
Three-Phase 346/600 VAC @0.8pf	300 kW	Amps: 361

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STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip													
			480 VAC						208/24	O VAC			
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	300	303	454	605	757	908	1059	227	341	454	568	681	794

FUEL CONSUMPTION RATES*

Natural Gas — ft³/hr (m³/hr)					
Percent Load	Standby/Demand Response				
25%	1029.7 (29.2)				
50%	1837.3 (52.0)				
75%	2592.2 (73.4)				
100%	3426.3 (97)				

^{*}Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby/Demand Response
Air Flow (inlet air combustion and radiator)	ft³/min (m³/min)	16,712 (473.2)
Coolant Flow per Minute	gal (Liters)	110 (416)
Coolant System Capacity	BTU/hr	14.5 (54.9)
Heat Rejection to Coolant	°F (°C)	945,659
Max. Operating Air Temp on Radiator	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENTS

		Standby/Demand Response
Flow at Rated Power	cfm (m³/min)	765.6 (21.7)

ENGINE

	Standby/Demand Response					
Reated Engine Speed	rpm	1800				
Horsepower at Rated kW**	hp	460				
BMEP	PSI	234.2				

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

EXHAUST

	Stan	dby/Demand Response
Exhaust Flow (Rated Output)	cfm (m³/min)	2677 (75.8)
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.