



Image shown may not reflect actual configuration

Standby 275 ekW 344 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		Cooling System	
Engine Model	14.2 L, In-line 6, 4-cycle	Cooling System Type	Pressurized Closed Recovery
Bore x Stroke	135 mm x 165 mm (5.31 in x 6.50 in)	Coolant Heater Standard Voltage/Wattage	120 V/1500 W
Displacement	14.17 L (864.71 in ³)	Fuel System	
Compression Ratio	9.5:1	Fuel Type	Natural Gas
Aspiration	Turbocharged-Aftercooled	Carburetor	Down Draft
Fuel System	Carburetor, Down Draft	Secondary Fuel Regulator	Standard
Governor	Electronic	Fuel Shut Off Solenoid	Standard (Dual)
Fuel Type	Natural Gas	Operating Fuel Pressure (Standard)	7" - 11" H ₂ O
Emission Certifications	U.S. EPA Certified	Engine Electrical System	
Rated Engine Speed	1800 rpm	System Voltage	24 VDC
General		Battery Charger Alternator	Standard
Cylinder No.	6	Battery Voltage	(2) 12 VDC
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	Enclosure	Motorized Dampers
	Fluid Containment Pans		Enclosure Ambient Heaters
Alternator System	3rd Breaker Systems	Control System	EMCP 4.2B
Generator Set	Special Testing		Battery Disconnect Switch
	Battery Box		

Cat® DG275 GC SPARK-IGNITED GENERATOR SETS

POWER RATINGS – NATURAL GAS

Natural Gas		
Three-Phase 120/208 VAC @0.8pf	275 kW	Amps: 954
Three-Phase 120/240 VAC @0.8pf	275 kW	Amps: 827
Three-Phase 277/480 VAC @0.8pf	275 kW	Amps: 413
Three-Phase 346/600 VAC @0.8pf	275 kW	Amps: 331

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	275	303	454	605	757	908	1059	227	341	454	568	681	794

FUEL CONSUMPTION RATES*

Natural Gas – ft ³ /hr (m ³ /hr)	
Percent Load	Standby
25%	971.1 (27.5)
50%	1704.2 (48.3)
75%	2403.2 (68.1)
100%	3160.9 (89.5)

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

COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft ³ /min (m ³ /min)	16,712 (473.2)
Coolant Flow per Minute	gpm (lpm)	110 (416)
Coolant System Capacity	gal (Liters)	14.5 (54.9)
Heat Rejection to Coolant	BTU/hr	872,408
Max. Operating Air Temp on Radiator	°F (°C)	110 (43)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENTS

		Standby
Flow at Rated Power	cfm (m ³ /min)	765.6 (21.7)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	415
BMEP	psi	211.3

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

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m ³ /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.