Cat® DG200
GAS GENERATOR SETS
NORTH AMERICA

Image shown may not reflect actual configuration

Engine Model	10.3L V8 TCAC
No. of Cylinders	8
Bore x Stroke	116.8 mm x 120.6 mm
Displacement	10.3 Liter
Compression Ratio	9.6:1
Aspiration	Turbocharged & Aftercooled
Fuel / Ignition System	Electronic Regulator / Spark Ignition
Governor	Electronic - G2 Class* capable

For North America, 60 Hz Market

Model	Emergency Standby		Demand Response		Prime		Emissions Strategy
	Natural Gas ekW	Propane ekW	Natural Gas ekW	Propane ekW	Natural Gas ekW	Propane ekW	
DG200	200	144	200	144	157	117	U.S. EPA Certified for Non-Emergency Application

PACKAGE PERFORMANCE

Performance	Emergency Standby		Demand Response		Prime	
	Natural Gas	Propane	Natural Gas	Propane	Natural Gas	Propane
Frequency, Hz	60					
Genset power rating with fan, ekW (3-Phase)	200	144	200	144	157	117
Performance number	EM7523	EM7525	EM7527	EM7529	EM7531	EM7533
Fuel System / Fuel Consumption						
Minimum required fuel delivery pressure at rail connector, psi (in. water)	0.36 (11)					
Maximum required fuel delivery pressure at rail connector, psi (in. water)	0.46 (13)					
100% load with fan,kg/hr (CFH)	53.3 (2397)	46.9 (886)	53.3 (2397)	46.9 (886)	40.8 (1835)	40.8 (771)
75% load with fan,kg/hr (CFH)	42.7 (1920)	36.8 (695)	42.7 (1920)	36.8 (695)	32 (1444)	32 (605)
50% load with fan,kg/hr (CFH)	28.4 (1277)	25 (472)	28.4 (1277)	25 (472)	23.2 (1052)	23.2 (438)
Cooling System[1]						
Radiator air flow, m^3/min (CFM)	498 (17588)					
Radiator air flow restriction (system), kPa (in. water)	0.12 (0.48)					
Engine coolant capacity, L (gal)	10.9 (2.8)					
Radiator coolant capacity, L (gal)	32.2 (8.5)					
Total coolant capacity, L (gal)	43.1 (11.3)					
Inlet Air						
Combustion air inlet flow rate, m^3/min (CFM) (kg/hr)	13.7 (484) (880.3)	12.1 (429) (780.3)	13.7 (484) (880.3)	12.1 (429) (780.3)	10.2 (361) (675.2)	10.4 (368) (669.7)
Maximum allowable intake air restriction, kPa (in. water)	3.54 (14.2)					
Exhaust System						
Exhaust gas temperature after turbo,°C (°F)	792 (1457)	820 (1508)	792 (1457)	820 (1508)	775 (1427)	793 (1459)
Exhaust gas flow rate, m^3/min (CFM) (kg/hr)	53 (1872) (934)	47 (1660) (827)	53 (1872) (934)	47 (1660) (827)	39 (1377) (716)	38 (1342) (710)
Exhaust system back pressure max allowable, kPa (in. water)	20 (80.4)					

PACKAGE PERFORMANCE (contd.)

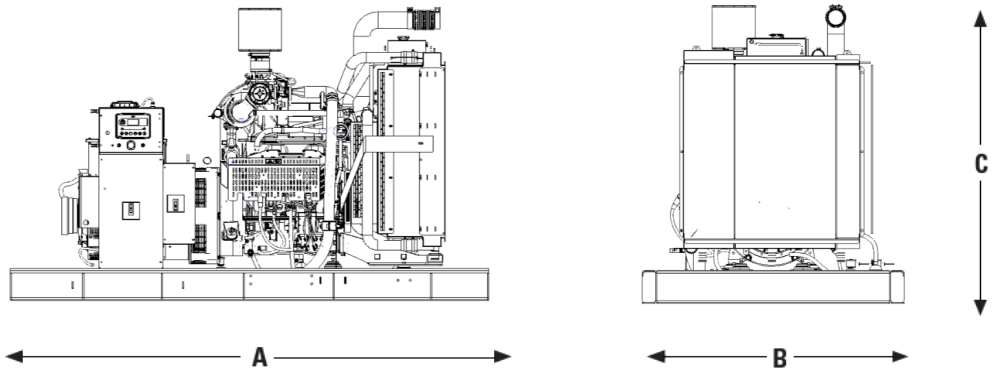
Heat Rejection	Standby		Demand Response		Prime	
	Natural Gas	Propane	Natural Gas	Propane	Natural Gas	Propane
Heat rejection to jacket water, kW (BTU/min)	112 (6368)	105 (5971)	112 (6368)	105 (5971)	102 (5800)	97 (5516)
Heat rejection to after cooler, kW (BTU/min)	39 (2218)	20 (1137)	39 (2218)	20 (1137)	20 (1137)	17 (967)
Heat rejection to oil cooler, kW (BTU/min)	37 (2104)	33 (1877)	37 (2104)	33 (1877)	33 (1877)	32 (1819)
Heat rejection to atmosphere from engine, kW (BTU/min)	49 (2786)	46 (2616)	49 (2786)	46 (2616)	38 (2161)	43 (2445)
Heat rejection to exhaust (Total), kW (BTU/min)	223 (12681)	200 (11374)	223 (12681)	200 (11374)	167 (9497)	166 (9440)
Lube System						
Oil dry fill capacity , L (gal)	13.7 (3.6)					
Maximum oil temperature, °C (°F)	121 (250)					
Maximum oil capacity, L (gal)	13.8 (3.6)					
Minimum oil capacity, L (gal)	10.4 (2.7)					
Emissions (Meets EPA Stationary Non-Emergency Limits)						
NOx + HC, g/kW-hr	0.8					
CO, g/kW-hr	20.6					

ALTERNATOR DATA

DG200					
Alternator	60 Hz 3-Phase				
Voltages	480/277	240/120	240/139	208/120	600/346
Temperature rise, °C	105	105	105	105	105
Motor starting capability @ 30% Voltage Dip, skVA	629	490	629	490	599
Frame size	M2736L4	M2736L4	M2736L4	M2736L4	M2736L4
Excitation	PMG	PMG	PMG	PMG	AREP
Rated Current, Amps - Natural Gas / Propane					
Standby	300 / 216	601 / 433	601 / 433	694 / 499	241 / 173
Demand Response	300 / 216	601 / 433	601 / 433	694 / 499	241 / 173
Prime	235 / 175	472 / 352	472 / 352	669 / 406	189 / 141

Motor starting capability is based on the assumption of 0.6 pf.
Temperature rise is based on the rating type and the respective site conditions.

WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight Kg (lb)
2985 (117.5)	1600 (63)	1820 (72)	1780 (3924)

Note: General configuration not to be used for installation. See general dimension drawings for detail.

APPLICABLE CODES AND STANDARDS:

CSA C22.2 No 100-04, UL 489, UL 869, UL 2200, IBC, IEC60034-1, ISO 3046, ISO 8528, NEMA MG 1-22, NEMA MG 1-33 and facilitates the compliance to NFPA 37, NFPA 70, NFPA 99, NFPA 110.

Codes may not be available for all model configurations. Site level review needed for NFPA70. Please consult your Cat dealer for availability

EMERGENCY STANDBY POWER (ESP): Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby rated ekW. Typical operation is 50 hours per year, with maximum expected usage of 200 hours per year.

DEMAND RESPONSE POWER: Output available with varying load when participating in a demand response or economic dispatch program. Average power output is 70% of the standby rated ekW. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

PRIME POWER: Output available with varying load for an unlimited time. Average power output is 70% of the prime rated ekW. Typical peak demand is 100% of prime rated ekW.

Ratings are based on SAE J1349 standard conditions.
These ratings also apply at ISO 3046 standard conditions.

1 CFH = 1000 BTU/HR
Fuel Rates are based on LHV of 35.83 MJ/Nm^3 for Natural Gas and 92.1 MJ/Nm^3 for Propane Vapor @77°F (25°C) and 328 ft (100 m) above sea level and a relative humidity of 30%.Temperatures and elevations greater than this standard must be accounted for as follows:

A derate of 1.5% for every 5°C above 25°C air inlet temperature.
A derate of 2.2% for every 200m above 100m.

DEFINITIONS AND CONDITIONS

[1] For ambient and altitude capabilities, consult your Cat dealer.
Air flow restriction (system) is added to the existing restriction from the factory.

[2] Generator temperature rise is based on 40°C (104°F) ambient per NEMA MG1-32.

*Governing Class capability as per ISO-8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

LET'S DO THE WORK.™

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GAS GENERATOR SETS
LATIN AMERICA

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No. of Cylinders	8
Bore x Stroke	116.8 mm x 120.6 mm
Displacement	10.3 Liter
Compression Ratio	9.6:1
Aspiration	Turbocharged & Aftercooled
Fuel / Ignition System	Electronic Regulator / Spark Ignition
Governor	Electronic - G2 Class* capable

For Latin America, 60 Hz Market

Model	Emergency Standby		Prime		Emissions Strategy
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DG200	200	144	157	117	U.S. EPA Certified for Non-Emergency Application

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Exhaust system back pressure max allowable, kPa (in. water)	20 (80.4)			

PACKAGE PERFORMANCE (contd.)

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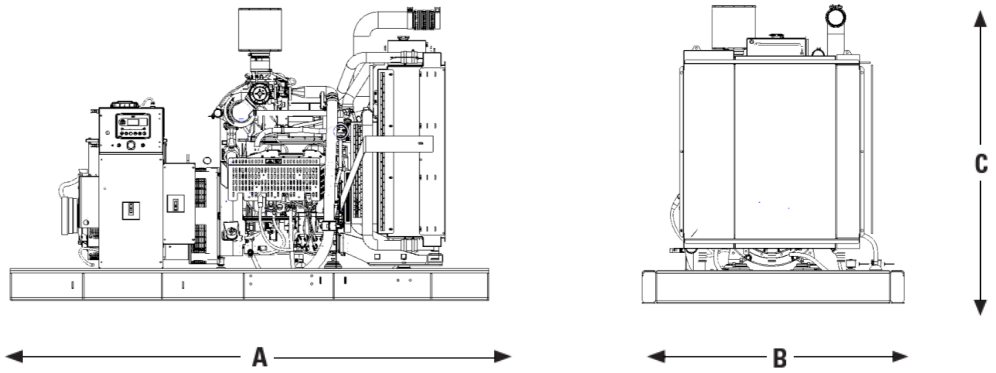
Maximum oil temperature, °C (°F)	121 (250)			
Maximum oil capacity, L (gal)	13.8 (3.6)			
Minimum oil capacity, L (gal)	10.4 (2.7)			
Emissions (Meets EPA Stationary Non-Emergency Limits)				
NOx + HC, g/kW-hr	0.8			
CO, g/kW-hr	20.6			

ALTERNATOR DATA

DG200							
Alternator	60 Hz 3-Phase						
Voltages	480/277	380/220	220/127	240/120	240/139	208/120	600/346
Temperature rise[2], °C	105	105	105	105	105	105	105
Motor starting capability @ 30% Voltage Dip, skVA	629	416	541	490	629	490	599
Frame size	M2736L4	M2736L4	M2736L4	M2736L4	M2736L4	M2736L4	M2736L4
Excitation	PMG	PMG	PMG	PMG	PMG	PMG	AREP
Rated Current, Amps - Natural Gas / Propane							
Emergency Standby	300 / 216	380 / 273	656 / 472	601 / 433	601 / 433	694 / 499	241 / 173
Prime	235 / 175	298 / 222	515 / 384	472 / 352	472 / 352	669 / 406	189 / 141

Motor starting capability is based on the assumption of 0.6 pf.
Temperature rise is based on the rating type and the respective site conditions.

WEIGHTS & DIMENSIONS



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