

Cat® DG125

GAS GENERATOR SETS

NORTH AMERICA



Image shown may not reflect actual configuration.

Engine Model	6.2L V8 TCAC
No. of Cylinders	8
Bore x Stroke	101.6 mm x 95.3 mm
Displacement	6.2 Liter
Compression Ratio	9.8:1
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	
DG125	125	117.9	104.8	98.4	87.6	87.6	U.S. EPA Certified for Emergency and Non-Emergency

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, kW (3-Phase)	125	117.9	104.8	98.4	87.6	87.6
Genset power rating with fan, kW (1-Phase)	NA	NA	100	86	86	86
Performance Numbers (3-Phase / 1-Phase)	EM6754 / NA	EM6755 / NA	EM6936 / EM6938	EM6937 / EM6939	EM6940 / EM6942	EM6941 / EM6943
Fuel System / Fuel Consumption						
Minimum required fuel delivery pressure at rail connector, psi (in. water)	0.36 (10)					
Maximum required fuel delivery pressure at rail connector, psi (in. water)	0.43 (12)					
100% load with fan,kg/hr (CFH)	34 (1543)	29.2 (546)	27.2 (1223)	26.8 (502)	23.5 (1058)	24.4 (462.5)
75% load with fan,kg/hr (CFH)	25.1 (1134)	21.7 (406)	21.3 (961.7)	21.1 (399)	19.1 (859)	19.3 (365)
50% load with fan,kg/hr (CFH)	17.7 (800)	15.3 (287)	15.5 (700)	15.4 (291)	13.7 (618.3)	14.2 (265.5)
Cooling System¹						
Radiator air flow, m³/min (CFM)	322 (11371)					
Radiator air flow restriction (system), kPa (in. water)	0.12					
Engine coolant capacity, L (gal)	14.5 (3.8)					
Radiator coolant capacity, L (gal)	7.6 (2.0)					
Total coolant capacity, L (gal)	22.1 (5.8)					
Inlet Air						
Combustion air inlet flow rate, m³/min (CFM) (kg/hr)	7.8 (277) (564)	6.3 (224) (457.5)	6.2 (222) (452.7)	5.7 (204.6) (418)	5.3 (190.7) (389.6)	5 (186) (380.4)
Maximum allowable intake air restriction, kPa (in. water)	3.48 (13.98)					
Exhaust System						
Exhaust gas temperature after turbo, °C (°F)	728 (1342)	725 (1337)	687 (1268)	722 (1331)	665 (1229)	694 (1281)
Exhaust gas flow rate, m³/min (CFM) (kg/hr)	31.7 (1095) (598)	25.3 (894) (487)	24.4 (862) (480)	23 (812) (444)	20.4 (720) (413)	20.3 (716) (405)
Maximum allowable exhaust system back pressure, kPa (in. water)	15 (60.28)					

PACKAGE PERFORMANCE (contd.)

Heat Rejection (3-Phase)	Emergency Standby		Demand Response		Prime	
	Natural Gas	Propane	Natural Gas	Propane	Natural Gas	Propane
Heat rejection to jacket water, kW (BTU/min)	91 (5175)	76 (4322)	69 (3924)	66 (3753)	60 (3412)	60 (3412)
Heat rejection to after cooler, kW (BTU/min)	16 (910)	13 (739)	13 (739)	11 (625)	8 (455)	8 (455)
Heat rejection to oil cooler, kW (BTU/min)	15 (853)	11 (625)	10 (568)	9 (511)	9 (511)	9 (511)
Heat rejection to atmosphere from engine, kW (BTU/min)	68 (3867)	46 (2616)	44 (2502)	42 (2388)	38 (2161)	38 (2161)
Heat rejection to exhaust, kW (BTU/min)	144 (8189)	112 (6369)	101 (5743)	98 (5573)	92 (5232)	91 (5175)
Lube System						
Sump refill with filter, L (gal)	5.4 (1.43)					
Maximum oil temperature, °C (°F)	121 (250)					
Maximum oil capacity, L (gal)	7.6 (2)					
Minimum oil capacity, L (gal)	4.7 (1.24)					
Emissions (Meets EPA Stationary Non Emergency Limits)						
NOx + HC, g/kW-hr	0.8					
CO, g/kW-hr	20.6					

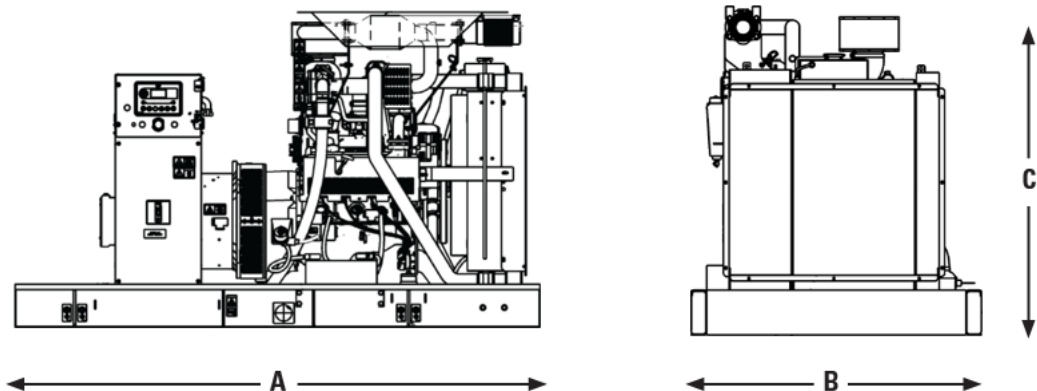
ALTERNATOR DATA

DG125						
Alternator	60 Hz 1-Phase	60 Hz 3-Phase				
Voltages	240/120	480/277	240/120	240/139	208/120	600/346
Temperature rise ² , °C	105	105	105	105	105	105
Motor starting capability @ 30% Voltage Dip, skVA	229	336	326	326	326	349
Frame size	M2238L4	M2254L4	M2254L4	M2254L4	M2254L4	M2254L4
Excitation	SE	PMG	PMG	PMG	PMG	PMG
Rated Current, Amps - Natural Gas / Propane						
Emergency Standby	NA	188 / 177	376 / 352	376 / 352	434 / 409	150 / 141
Demand Response	417 / 358	158 / 148	315 / 296	315 / 296	364 / 342	126 / 117
Prime	358 / 358	131 / 131	263 / 263	263 / 263	301 / 301	105 / 105

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)
2442 (96)	1297 (51)	1449 (57)	1464 (3226)

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/Nm³ for Natural Gas and 92.1 MJ/Nm³ 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.

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Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, LET’S DO THE WORK, their respective logos, “Caterpillar Corporate Yellow”, the “Power Edge” and Cat “Modern Hex” trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

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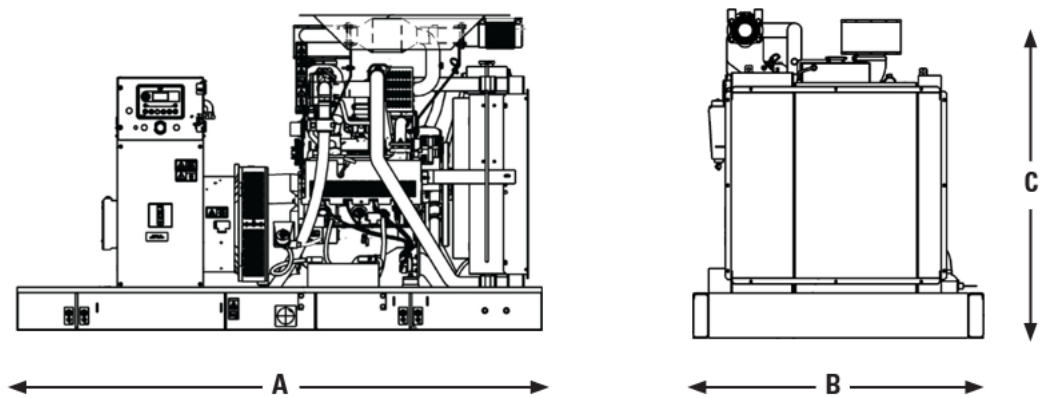
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