Cat[®] DG35 GAS GENERATOR SETS NORTH AMERICA





Engine Model	3.6L NA Inline
No. of Cylinders	4
Bore x Stroke	105.54 mm x 102.87 mm
Displacement	3.6 Liter
Compression Ratio	9.8:1
Aspiration	Naturally Aspirated
Fuel / Ignition System	Electronic Regulator / Spark Ignition
Governor	Electronic

Image shown may not reflect actual configuration

For North America, 60 Hz Market

	Emergenc	y Standby	Demand	Response	Pri	ne	
Model	Natural Gas _{ekW}	Propane ekW	Natural Gas _{ekW}	Propane ekW	Natural Gas _{ekW}	Propane _{ekW}	Emissions Strategy
DG35	34	34	34	34	32	32	U.S. EPA Certified for Non-Emergency Application

Rating output for DG35 is declared at (+3 /-0)%

PACKAGE PERFORMANCE

	Emergency Standby		Demand Response		Prime			
Performance	Natural Gas	Propane	Natural Gas	Propane	Natural Gas	Propane		
Frequency, Hz	60							
Genset power rating with fan, ekW (3-Phase / 1-Phase)	34 / 34	34 / 34	34 / 34	34 / 34	32 / 32	32 / 32		
Performance number	-	-	-	-	-	-		
Fuel System / Fuel Consumption								
Minimum required fuel delivery pressure at rail connector, psi (in. water)	0.28 (8)							
Maximum required fuel delivery pressure at rail connector, psi (in. water)			0.43	(12)				
100% load with fan, kg/hr (CFH)	12.1 (548)	12.2 (228)	12.1 (548)	12.2 (228)	14.0 (738)	15.9 (296)		
75% load with fan, kg/hr (CFH)	8.1 (367)	8.6 (161)	8.1 (367)	8.6 (161)	11.5 (520)	12.5 (233)		
50% load with fan, kg/hr (CFH)	6.6 (253)	6.0 (112)	6.6 (253)	6.0 (112)	8.8 (398)	9.7 (180)		
Cooling System ¹								
Radiator air flow, m ³ /min (CFM)			53.7 (1896)				
Radiator air flow restriction (system), kPa (in. water)			0.1	12				
Engine coolant capacity, L (gal)			2.5 (0.6)				
Radiator coolant capacity, L (gal)			18.3	(4.8)				
Total coolant capacity, L (gal)			20.8	(5.5)				
Inlet Air								
Combustion air inlet flow rate, m³/min (CFM) (kg/hr)	3.0 (107) (199.3)	2.8 (102) (190)	3.0 (107) (199.3)	2.8 (102) (190)	2.3 (83) (154)	2.4 (85) (159)		
Maximum allowable intake air restriction, kPa (in. water)	3.5 (14)							
Exhaust System								
Exhaust gas temperature, °C (°F)	730 (1346)	806 (1482)	730 (1346)	806 (1482)	773 (1423)	721 (1329)		
Exhaust gas flow rate, m³/min (CFM) (kg/hr)	11 (388) (211)	11.3 (399) (202)	11 (388) (211)	11.3 (399) (202)	11.8 (494) (238)	11.8 (494) (175)		
Exhaust system back pressure max allowable, kPa (in. water)	7.0 (28)							



PACKAGE PERFORMANCE (contd.)

	Emergency Standby		Demand Response		Prime	
	Natural Gas	Propane	Natural Gas	Propane	Natural Gas	Propane
Heat Rejection						
Heat rejection to jacket water, kW (BTU/min)	39.4 (2240)	36.2 (2058)	39.4 (2240)	36.2 (2058)	39.4 (2240)	39.4 (2240)
Heat rejection to atmosphere from engine, kW (BTU/min)	31 (1763)	28.6 (1626)	31 (1763)	28.6 (1626)	31 (1763)	31 (1763)
Heat rejection to exhaust (total), kW (BTU/min)	47 (2673)	49.7 (2826)	47 (2673)	49.7 (2826)	47 (2673)	47 (2673)

Lube System						
Oil dry fill capacity with filter, L (gal)	8.3 (2.2)					
Maximum oil temperature, °C (°F)	121 (250)					
Maximum oil capacity, L (gal)	7.6 (2.0)					
Minimum oil capacity, L (gal)	5.7 (1.5)					
Emissions Meets (EPA Stationary Non-Emergency Limits)						
NOx + HC, g/kW-hr	0.8					
CO, g/kW-hr	20.6					

ALTERNATOR DATA

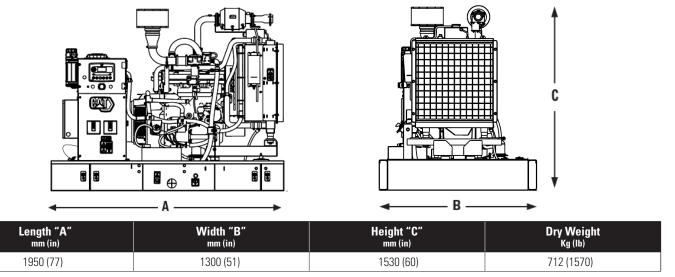
DG35								
Alternator	60 Hz 1-Phase	60 Hz 3-Phase						
Voltages	240/120	480/277	240/120	240/139	208/120	600/346		
Temperature rise ² , °C	105	105	105	105	105	105		
Motor starting capability @ 30% Voltage Dip, skVA	-	-	-	-	-	-		
Frame size	M1775L4	M1775L4	M1775L4	M1775L4	M1775L4	M1736L4		
Excitation	SE	SE	SE	SE	SE	SE		
Rated Current, Amps - Natural Gas / Propane								
Emergency Standby	146 / 146	52.7 / 52.7	105.4 / 105.4	105.4 / 105.4	121.6 / 121.6	42 / 42		
Demand Response	146 / 146	52.7 / 52.7	105.4 / 105.4	105.4 / 105.4	121.6 / 121.6	42 / 42		
Prime	133 / 133	48.2 / 48.2	96.2 / 96.2	96.2 / 96.2	111 / 111	38.5 / 38.5		

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



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, UL142, UL489, UL869, cUL/UL2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO 3046, ISO 8528, NEMA MG 1-33.

EMERGENCY STANDBY POWER (ESP): Typical usage of 50 hours per year with a maximum of 200 hours per year with varying loads. Average variable load factor is 70% of the ESP rating. No overload is available. Not for maintained utility paralleling applications.

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 20°C air inlet temperature. Derate varies between 4% to 9% for every 500m. Refer derate chart for more details.

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.



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