Cat® DG350 Gas Generator Sets





Engine Model Cat® CG18 In-line 6, 4-cycle Natural Gas	
Bore x Stroke 145 mm x 183 mm (5.7 in x 7.2 in)	
Displacement 18.1 L (1106.3 in³)	
Compression Ratio 10.5:1	
Aspiration	Turbocharged, Air-to-Air Aftercooled
Fuel System	Venturi – Mixer
Governor Electronic ADEM™ A4 - G2 Class* capable	

Image shown might not reflect actual configuration

Model	Standby / Demand Response Power	Emission Strategy	
DC2E0	60 Hz	LLC FDA Cortified for Emergency and Non Emergency	
DG350	350 ekW (437.5 kVA)	U.S. EPA Certified for Emergency and Non-Emergency	

PACKAGE PERFORMANCE

Performance	Standby	Demand Response	
Performance Number	EM6247	EM6188	
Frequency, Hz	60		
Genset power rating with fan @ 0.8 power factor, ekW	3!	50	
Fuel Consumption			
Utility Fuel Pressure – Standard Pressure, psi [#]	1.25	– 1.5	
Utility Fuel Pressure – Low Pressure (optional), psi [#]	0.25	– 1.5	
100% load with fan, CFH (m³/hr)	4026 (114)	4202 (119)	
75% load with fan, CFH (m³/hr)	3249 (92)	3355 (95)	
50% load with fan, CFH (m³/hr)	2401 (68)	2472 (70)	
Cooling System ¹			
Radiator air flow restriction (system), kPa (in. water)	0.12	(0.48)	
Radiator air flow, CFM (m³/min)	24826 (703)		
Engine coolant capacity, L (gal)	27 (7.2)		
Radiator coolant capacity, L (gal)	62 (16.4)		
Total coolant capacity, L (gal)	89 (23.6)		
Inlet Air			
Combustion air inlet flow rate, kg/hr (m³/min) 2375 (34)		5 (34)	
Exhaust System			
Exhaust stack gas temperature, °C (°F)	520	(968)	
Exhaust gas flow rate, kg/hr (m³/min)	2440 (92.05)		
Exhaust system backpressure (minimum allowable), kPa (in. water) 1 (4.02)		.02)	
Exhaust system backpressure (maximum allowable), kPa (in. water)			
Heat Rejection			
Heat rejection to coolant (total), kW (Btu/min) 260 (14786)		4786)	
eat rejection to atmosphere to Aftercooler, kW (Btu/min) 150 (8530)		8530)	
Heat rejection to atmosphere from engine, kW (Btu/min)	160 (9099)	
Heat rejection to exhaust (total) kW (Btu/min)	317 (1	8027)	

LEHE20514-05 Page 1 of 3

DG350 Gas Generator Sets Electric Power



PACKAGE PERFORMANCE (contd.)

Lube System	Standby	Demand Response
Sump Refill with Filter, L (gal)	40 (10.6)	
Maximum oil temperature, °C (°F)	110 (230)	
Maximum oil capacity, L (gal)	35 (9.3)	
Minimum oil capacity, L (gal)	23 (6.1)

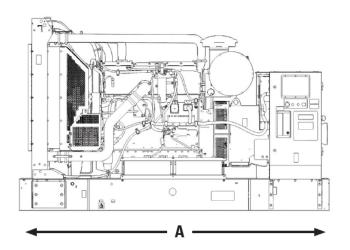
ALTERNATOR DATA

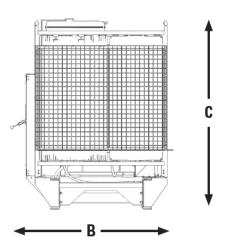
DG350	60 Hz				
Voltages, V	480/277	240/139	208/120	240/120	600/346
Motor starting capability @ 30% Voltage Dip, skVA	880	880	677	677	1055
Current, Amps	526	1052	1214	1052	421
Temperature Rise ² , °C	130/40				
Frame Size	LC6114B				
Excitation	SE AREP				

LEHE20514-05 Page 2 of 3



WEIGHTS & DIMENSIONS





On Narrow Skid Base

Length "A"	Width "B"	Height "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
3542 (139)	2011 (79)	2085 (82.2)	

On Wide Skid Base

Length "A"	Width "B"	Height "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
4986 (196)	2170 (85)	2080 (82)	5017 (11060)

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.

STANDBY POWER: 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 200 hours per year, with maximum expected usage of 500 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.

 ${f Ratings}$ 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 (lower heat values) of 905 BTU/SCF for Natural Gas @77°F (25°C) and 498.6 ft (152m) above sea level.

Additional ratings may be available for specific customer requirements. For higher temperatures and elevations follow derate specification. Contact your Cat representative for 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 a 40°C (104°F) ambient per NEMA MG1-32.
- Operating Fuel Pressure is the fuel pressure required to be delivered at the genset base frame rail connection. Recommended gas regulator to be used in conjunction if the gas supply pressure is above this range.
- * Governing Class capability as per ISO-8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

www.cat.com/electricpower
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