Cat[®] DG400 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 in ³) |
| 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 | Limited Time Power (LTP) | Emission Strategy |
|-------|---------------------------------|----------------------------------|-------------------|
| DG400 | 60 | U.S. EPA Certified for Emergency | |
| DG400 | 400 ekW (500 kVA) | 350 ekW (437.5 kVA) | and Non-Emergency |

PACKAGE PERFORMANCE

| Performance | Standby | Demand Response | LTP | |
|---|---------------|-----------------|--------------|--|
| Performance Number | EM6246 | EM6187 | EM7087 | |
| Frequency, Hz | | 60 | | |
| Genset power rating with fan @ 0.8 power factor, ekW | 400 | 400 | 350 | |
| 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) | 4439 (125.7) | 4573 (129.5) | 4110 (116.4) | |
| 75% load with fan, CFH (m ³ /hr) | 3489 (98.8) | 3616 (102.4) | 3277 (92.8) | |
| 50% load with fan, CFH (m³/hr) | 2585 (73.2) | 2677 (75.8) | 2433 (68.9) | |
| 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, lb/hr (m³/min) | 5544.6 (35.8) | 5889 (38) | 5232 (33.8) | |
| Exhaust System | | | | |
| Exhaust stack gas temperature,°C (°F) | 538 (1000) | 531 (987) | 548 (1018) | |
| Exhaust gas flow rate, lb/hr (m³/min) | 5756 (104.5) | 6112 (111) | 5428 (98.5) | |
| Exhaust system backpressure (minimum allowable), kPa (in. water) | | 1 (4.02) | | |
| Exhaust system backpressure (maximum allowable), kPa (in. water) | | 5 (20.1) | | |
| Heat Rejection | | | | |
| Heat rejection to coolant (total), kW (BTU/min) | 150 (8530) | 154 (8757) | 145 (8246) | |
| Heat rejection to atmosphere to aftercooler, kW (BTU/min) | 134 (7620) | 151 (8587) | 122 (6938) | |
| Heat rejection to atmosphere from engine, kW (BTU/min) | 94 (5345) | 94 (5345) | 86 (4890) | |
| Heat rejection to exhaust (total), kW (BTU/min) | 427 (24283) | 446 (25363) | 289 (16435) | |



PACKAGE PERFORMANCE (contd.)

| Lube System | | | | |
|--|-------------------------|---------------------------|---------------------------|--|
| 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) | | |
| | | | | |
| Emissions | Standby | Demand Response | LTP | |
| Meets EPA Stationary Emergency and Non-Emergency Limits (g/bhp-hr) | NOx: 2.0 CO: 4.0 VOC: 1 | NOx: 1.0 CO: 2.0 VOC: 0.7 | NOx: 1.0 CO: 2.0 VOC: 0.7 | |

ALTERNATOR DATA

| Alternator ² | | | | | | |
|--|--|-------------------------|---------|---------|---------|---------|
| Duty Cycle | | Standby/Demand Response | | | | |
| Phase | | 3-Phase | | | | |
| Voltages, V | | 480/277 | 240/139 | 208/120 | 240/120 | 600/346 |
| Current, Am | os | 601 | 1203 | 1388 | 1203 | 481 |
| Frame: | Temperature Rise @ 40°C | 130 | 130 | | | |
| LC6114C Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | 802 | 802 | | | |
| Frame: | Temperature Rise @ 40°C | 105 | 105 | 130 | 130 | |
| LC6114D Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | 824 | 824 | 627 | 627 | |
| Frame: | Temperature Rise @ 40°C | 80 | 80 | 105 | 105 | |
| LC6114F Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | 1310 | 1310 | 1001 | 1001 | |
| Frame: | Temperature Rise @ 40°C | | | 80 | 80 | |
| LC6114G Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | | | 1009 | 1009 | |
| Frame: LC6124D Excitation: AREP | Temperature Rise @ 40°C | | | | | 105 |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | | | | | 1287 |
| Frame: | Temperature Rise @ 40°C | | | | | 80 |
| LC6124F Excitation: AREP | Motor Starting Capability @ 30% Voltage Dip, skVA | | | | | 1574 |

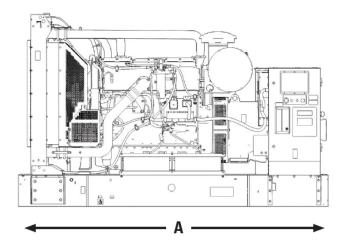


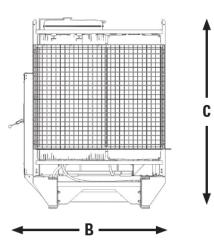
ALTERNATOR DATA

| Alternator ² | | | | | | |
|--------------------------------|--|---------|---------|---------|---------|---------|
| Duty Cycle | | LTP | | | | |
| Phase | | 3-Phase | | | | |
| Voltages, V | | 480/277 | 240/139 | 208/120 | 240/120 | 600/346 |
| Current, Amp | DS | 526 | 1053 | 1214 | 1053 | 421 |
| Frame: | Temperature Rise @ 40°C | 130 | 130 | 130 | 130 | |
| LC6114B Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | 800 | 800 | 610 | 610 | |
| Frame: | Temperature Rise @ 40°C | 105 | 105 | | | |
| LC6114C Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | 802 | 802 | | | |
| Frame: | Temperature Rise @ 40°C | 80 | 80 | 105 | 105 | |
| LC6114D Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | 824 | 824 | 627 | 627 | |
| Frame: | Temperature Rise @ 40°C | | | 80 | 80 | |
| LC6114F Excitation: SE | Motor Starting Capability @ 30% Voltage Dip, skVA | | | 1001 | 1001 | |
| Frame: | Temperature Rise @ 40°C | | | | | 130 |
| LC6124B Excitation: AREP | Motor Starting Capability @ 30% Voltage Dip, skVA | | | | | 849 |
| Frame: | Temperature Rise @ 40°C | | | | | 80 |
| LC6124D Excitation: AREP | Motor Starting Capability @ 30% Voltage Dip, skVA | | | | | 1287 |



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) | 4689 (10337) |

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, 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.

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.

LIMITED TIME POWER (LTP): A Prime-rated generator set under Limited Time Power guidelines can run for a maximum of 500 hours per year with an average load factor of up to 100%.

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.

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