Cat® D100 GC

Diesel Generator Sets



Standby : 60 Hz



Image shown might not reflect actual configuration

| Engine Model | Cat® C4.4 In-line 4, 4-cycle Diesel |
|-----------------------|-------------------------------------|
| Bore x Stroke | 105 mm x 127 mm (4.1in x 5.0 in) |
| Displacement | 4.4 L (269 in³) |
| Compression Ratio | 16.7:1 |
| Aspiration | Turbocharged |
| Fuel Injection System | Common Rail |

| Model | Standby | Emission Strategy |
|---------|---------|-------------------|
| D100 GC | 100 ekW | EPA TIER III |

PACKAGE PERFORMANCE

| Performance | Sta | Standby | | |
|--|-------------|-------------|--|--|
| | 3-Phase | 1-Phase | | |
| Frequency | 60 Hz | 60 Hz | | |
| Genset Power Rating | 125 kVA | 100 kVA | | |
| Genset power rating with fan, 3p@ 0.8 & 1p@1.0 power factor | 100 ekW | 100 ekW | | |
| Performance Number | P4514A | P4514A | | |
| Fuel Consumption | | | | |
| 100% load with fan, L/hr (gal/hr) | 27.9 (7.4) | 28.2 (7.4) | | |
| 75% load with fan, L/hr (gal/hr) | 22.5 (5.9) | 22.8 (6.0) | | |
| 50% load with fan, L/hr (gal/hr) | 16.7 (4.4) | 16.9 (4.5) | | |
| Cooling System ¹ | | | | |
| Radiator air flow restriction (system), kPa (in. water) | 0.12 | 0.12 (0.48) | | |
| Engine coolant capacity, L (gal) | 7.0 | 7.0 (1.8) | | |
| Radiator coolant capacity, L (gal) | 10.0 | 10.0 (2.6) | | |
| Total coolant capacity, L (gal) | 17.0 | 17.0 (4.4) | | |
| Inlet Air | | | | |
| Combustion air inlet flow rate, m³/min (CFM) | 8.82 (311) | 8.82 (311) | | |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 45 (| 45 (113) | | |
| Exhaust System | | | | |
| Exhaust stack gas temperature, °C (°F) | 659 (1218) | 659 (1218) | | |
| Exhaust gas flow rate, m³/min (CFM) | 20.2 (712) | 20.2 (712) | | |
| Exhaust system backpressure (maximum allowable), kPa (in. water) | 15.0 (60.2) | 15.0 (60.2) | | |
| Heat Rejection | | | | |
| Heat rejection to exhaust (total), kW (BTU/min) | 91.3 (5192) | 91.3 (5192) | | |
| Heat rejection to atmosphere from engine, kW (BTU/min) | 15.6 (887) | 15.6 (887) | | |
| Emissions (Nominal) ² | | | | |
| NOx + HC, g/kW-hr | 3.6 | 3.6 | | |
| CO, g/kW-hr | 0.9 | 0.9 | | |
| PM, g/kW-hr | 0.12 | 0.12 | | |

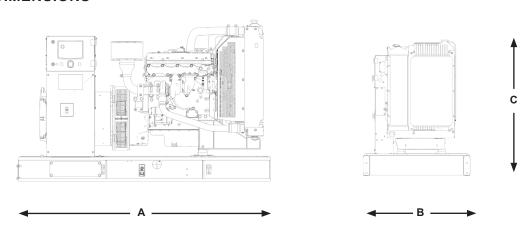
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D100 GC Diesel Generator Sets Electric Power



| Alternator ³ | | | | |
|---|---------|---------|---------|---------|
| Voltages | 480V | 208V | 600V | 240V |
| Motor starting capability @ 30% Voltage Dip, skVA | 165 | 182 | 328 | 229 |
| Current, Amps | 150 | 347 | 120 | 417 |
| Frame Size | M2236L4 | M2254L4 | M2236L4 | M2238L4 |
| Excitation | SE | SE | AREP | SE |
| Temperature Rise, °C | 130 | 105 | 130 | 130 |

WEIGHTS & DIMENSIONS



| Dim "A" | Dim "B" | Dim "C" | Dry Weight |
|-------------|-------------|-------------|-------------|
| mm (in) | mm (in) | mm (in) | kg (lb) |
| 2097 (82.6) | 1100 (43.3) | 1343 (52.9) | 1008 (2222) |

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.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.

STANDBY: Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

DEFINITIONS AND CONDITIONS

- ¹ For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.
- ² Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 BTU/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.
- ³ UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.