

Standby: 60Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|---|
| Engine Model | Cat [®] C4.4 In-line 4, 4-cycle diesel |
| Bore x Stroke | 105mm x 127mm (4.1in x 5.0 in) |
| Displacement | 4.4 L (269 in ³) |
| Compression Ratio | 16.7:1 |
| Aspiration | Turbocharged |
| Fuel Injection System | Common Rail |

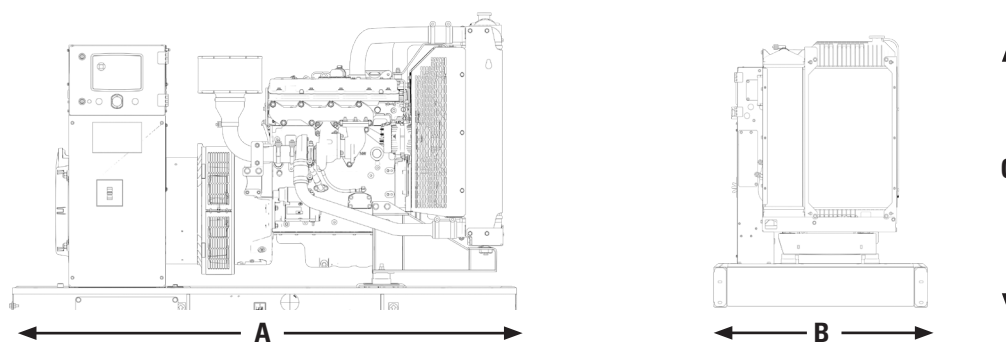
| Model | Standby | Emission Strategy |
|--------|---------|-------------------|
| D80 GC | 80 ekW | EPA TIER III |

PACKAGE PERFORMANCE

| Performance | Standby | |
|---|-------------|-------------|
| | 3-Phase | 1-Phase |
| Frequency | 60 Hz | 60 Hz |
| Genset Power Rating | 100 kVA | 80 kVA |
| Genset power rating with fan, 3p@ 0.8 & 1p@1.0 power factor | 80 ekW | 80 ekW |
| Performance Number | P4510A | P4510A |
| Fuel Consumption | | |
| 100% load with fan, L/hr (gal/hr) | 22.9 (6.1) | 23.3 (6.2) |
| 75% load with fan, L/hr (gal/hr) | 18.4 (4.9) | 18.6 (4.9) |
| 50% load with fan, L/hr (gal/hr) | 13.5 (3.6) | 13.6 (3.6) |
| Cooling System¹ | | |
| Radiator air flow restriction (system), kPa (in. Water) | 0.12 (0.48) | |
| Engine coolant capacity, L (gal) | 7.0 (1.8) | |
| Radiator coolant capacity, L (gal) | 10.0 (2.6) | |
| Total coolant capacity, L (gal) | 17.0 (4.4) | |
| Inlet Air | | |
| Combustion air inlet flow rate, m ³ /min (cfm) | 7.8 (275) | 7.8 (275) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 45 (113) | |
| Exhaust System | | |
| Exhaust stack gas temperature, °C (°F) | 630 (1166) | 630 (1166) |
| Exhaust gas flow rate, m ³ /min (cfm) | 17.6 (620) | 17.6 (621) |
| 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) | 77.7 (4419) | 77.7 (4419) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 13.5 (768) | 13.5 (768) |

| Emissions (Nominal) ² | Standby | | | |
|---|---------|---------|---------|---------|
| | 3-Phase | | 1-Phase | |
| 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 | |
| Alternator ³ | | | | |
| Voltages | 480V | 208V | 600V | 240V |
| Motor starting capability @ 30% Voltage Dip, skVA | 143 | 128 | 328 | 182 |
| Current Amps | 120 | 278 | 96 | 333 |
| Frame Size | M2233L4 | M2236L4 | M2236L4 | M2235L4 |
| Excitation | SE | SE | AREP | SE |
| Temperature Rise, °C | 130 | 105 | 105 | 130 |

WEIGHTS & DIMENSIONS



Note: General configuration not to be used for installation. See general dimension drawings for detail.

| Dim "A" mm (in) | Dim "B" mm (in) | Dim "C" mm (in) | Dry Weight kg (lb) |
|-----------------|-----------------|-----------------|--------------------|
| 2097 (82.6) | 1100 (43.3) | 1343 (52.9) | 950 (2095) |

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

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.

PRIME: Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 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.

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