

Standby & Prime: 50Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|---|
| Engine Model | Cat® C18 ACERT™ In-line 6, 4-cycle diesel |
| Bore x Stroke | 145mm x 183mm (5.7in x 7.2in) |
| Displacement | 18.1 L (1106 in³) |
| Compression Ratio | 14.5:1 |
| Aspiration | Turbocharged Air-to-Air Aftercooled |
| Fuel Injection System | MEUI |
| Governor | Electronic ADEM™ A4 |

| Model | Standby | Prime | Emission Strategy |
|---------|------------------|------------------|-------------------------|
| DE715E0 | 715 kVA, 572 ekW | 650 kVA, 520 ekW | Non-Certified Emissions |

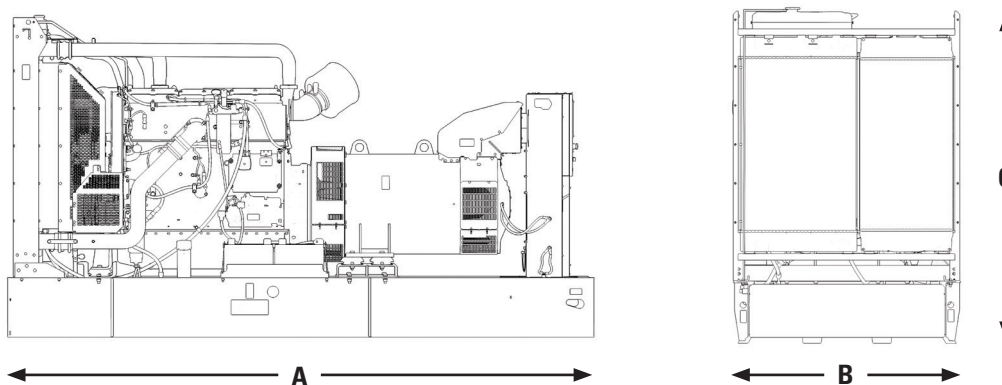
PACKAGE PERFORMANCE

| Performance | Standby | Prime |
|---|-------------------------|----------------|
| Frequency | 50 Hz | |
| Genset Power Rating | 715 kVA | 650 kVA |
| Genset power rating with fan @ 0.8 power factor | 572 ekW | 520 ekW |
| Emissions | Non-Certified Emissions | |
| Performance Number | DM9824 | DM9823 |
| Fuel Consumption | | |
| 100% load with fan, L/hr (gal/hr) | 144.5 (38.2) | 130.6 (34.5) |
| 75% load with fan, L/hr (gal/hr) | 107.0 (28.3) | 96.9 (25.6) |
| 50% load with fan, L/hr (gal/hr) | 73.5 (19.4) | 67.0 (17.7) |
| 25% load with fan, L/hr (gal/hr) | 42.3 (11.2) | 38.8 (10.3) |
| Cooling System¹ | | |
| Radiator air flow restriction (system), kPa (in. Water) | 0.12 (0.48) | 0.12 (0.48) |
| Radiator air flow, m³/min (cfm) | 374 (13207) | 374 (13207) |
| Engine coolant capacity, L (gal) | 20.8 (5.5) | 20.8 (5.5) |
| Radiator coolant capacity, L (gal) | 34 (8.9) | 34 (8.9) |
| Total coolant capacity, L (gal) | 54.8 (14.4) | 54.8 (14.4) |
| Inlet Air | | |
| Combustion air inlet flow rate, m³/min (cfm) | 37.5 (1325.8) | 35.3 (1246.1) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 51 (124) | 49 (119) |
| Exhaust System | | |
| Exhaust stack gas temperature, °C (°F) | 568.2 (1054.8) | 550.5 (1022.9) |
| Exhaust gas flow rate, m³/min (cfm) | 110.6 (3906.1) | 101.2 (3572.0) |
| Exhaust system backpressure (maximum allowable) kPa (in. water) | 10.0 (40.0) | 10.0 (40.0) |
| Heat Rejection | | |
| Heat rejection to jacket water, kW (Btu/min) | 179 (10181) | 165 (9375) |
| Heat rejection to exhaust (total) kW (Btu/min) | 541 (30791) | 487 (27711) |
| Heat rejection to aftercooler, kW (Btu/min) | 107 (6091) | 91 (5192) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 89 (5064) | 83 (4729) |

| Emissions (Nominal) ² | Standby | Prime | |
|--|----------------------|---------------------|--------------------|
| NO _x , mg/Nm ³ (g/hp-hr) | 2989.7 (6.1) | 3135.1 (6.2) | |
| CO, mg/Nm ³ (g/hp-hr) | 354.8 (0.7) | 411.8 (0.8) | |
| HC, mg/Nm ³ (g/hp-hr) | 4.3 (0.0) | 7.2 (0.0) | |
| PM, mg/Nm ³ (g/hp-hr) | 9.4 (0.0) | 14.2 (0.0) | |
| Alternator ³ | | | |
| Voltages | 380V | 400V | 415V |
| Motor starting capability @ 30% Voltage Dip | 1859 skVA | 2064 skVA | 2228 skVA |
| Current | SB: 1086A, PP: 988A | SB: 1032A, PP: 938A | SB: 995A, PP: 904A |
| Frame Size | A3355L4 | A3355L4 | A3355L4 |
| Excitation | SE | SE | SE |
| Temperature Rise | SB: 163°C, PP: 125°C | | |

SB: Standby PP: Prime Power

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) |
|-----------------|-----------------|-----------------|--------------------|
| 3910 (154) | 1461 (58) | 2156 (85) | 3862 (8514) |

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, NO_x. 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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