

Cat® C1.1

Diesel Generator Sets



Standby & Prime: 50 Hz & 60 Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|-------------------------------------|
| Engine Model | Cat® C1.1 In-line 3, 4-cycle diesel |
| Bore x Stroke | 77 mm x 81 mm (3.0 in x 3.2 in) |
| Displacement | 1.1 L (69 in³) |
| Compression Ratio | 23:1 |
| Aspiration | Naturally Aspirated |
| Fuel Injection System | Inline |
| Governor | Mechanical |

| Model | Standby | | Prime | | Emission Strategy |
|---------|---------|----------|---------|----------|-------------------|
| | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| DE9.5E3 | 9.5 kVA | 11.0 kVA | 8.5 kVA | 10.0 kVA | EU IIIA |

PACKAGE PERFORMANCE

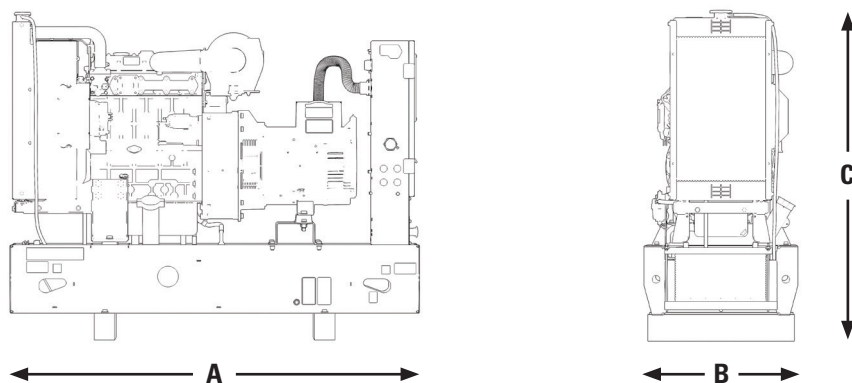
| Performance | Standby | | Prime | |
|---|------------|-------------|------------|-------------|
| Frequency | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| Genset Power Rating | 9.5 kVA | 11.0 kVA | 8.5 kVA | 10.0 kVA |
| Genset power rating with fan @ 0.8 power factor | 7.6 ekW | 8.8 ekW | 6.8 ekW | 8.0 ekW |
| Emissions | EU IIIA | | | |
| Fuel Consumption | | | | |
| 110% load with fan, L/hr (gal/hr) | NA | | 2.9 (0.8) | 3.4 (0.9) |
| 100% load with fan, L/hr (gal/hr) | 2.9 (0.8) | 3.4 (0.9) | 2.6 (0.7) | 3.0 (0.8) |
| 75% load with fan, L/hr (gal/hr) | 2.1 (0.6) | 2.4 (0.6) | 2.0 (0.5) | 2.2 (0.6) |
| 50% load with fan, L/hr (gal/hr) | 1.6 (0.4) | 1.8 (0.5) | 1.5 (0.4) | 1.8 (0.5) |
| Cooling System¹ | | | | |
| Radiator air flow restriction (system), kPa (in water) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Radiator air flow, m³/min (CFM) | 24.0 (848) | 32.7 (1155) | 24.0 (848) | 32.7 (1155) |
| Total coolant capacity, L (gal) | 5.2 (1.4) | 5.2 (1.4) | 5.2 (1.4) | 5.2 (1.4) |
| Inlet Air | | | | |
| Combustion air inlet flow rate, m³/min (CFM) | 0.7 (25) | 0.9 (32) | 0.7 (25) | 0.9 (32) |
| Max. Allowable Combustion Air Inlet Temp, °C | 50 | 50 | 50 | 50 |
| Exhaust System | | | | |
| Exhaust stack gas temperature, °C (°F) | 420 (788) | 515 (959) | 368 (694) | 437 (819) |
| Exhaust gas flow rate, m³/min (CFM) | 1.8 (64) | 2.4 (85) | 1.7 (59) | 2.2 (78) |
| Exhaust system backpressure (maximum allowable), kPa (in water) | 10.2 (41) | 10.2 (41) | 10.2 (41) | 10.2 (41) |
| Heat Rejection | | | | |
| Heat rejection to jacket water, kW (BTU/min) | 9.5 (540) | 12.0 (682) | 8.3 (472) | 10.0 (569) |
| Heat rejection to atmosphere from engine & alternator, kW (BTU/min) | 4.2 (239) | 4.9 (279) | 3.2 (182) | 4.2 (239) |

C1.1 Diesel Generator Sets Electric Power



| Alternator ² | | 50 Hz | | | | | | 60 Hz | | | |
|----------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Duty Cycle | | Standby | | | Prime | | | Standby | | Prime | |
| Phase | | 3-Phase | | | 3-Phase | | | 3-Phase | | 3-Phase | |
| Voltages, V | | 380/220 | 400/230 | 415/240 | 380/220 | 400/230 | 415/240 | 220/127 | 220/127 | 220/127 | 220/127 |
| Current, Amps | | 14 | 14 | 13 | 13 | 12 | 12 | 28.9 | 26.2 | 28.9 | 26.2 |
| Frame: LC1114B Excitation: SE | Temperature Rise, 40°C | 163 | 163 | 163 | 125 | 125 | 125 | 105 | 80 | 105 | 80 |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 18 | 19 | 20 | 18 | 19 | 20 | 20 | 20 | 20 | 20 |
| Frame: M1413L4 Excitation: SE | Temperature Rise @ 40°C | 105 | 105 | 105 | 80 | 80 | 80 | 105 | 80 | 105 | 80 |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 16 | 18 | 19 | 16 | 18 | 19 | 5 | 5 | 5 | 5 |

WEIGHTS & DIMENSIONS



| Dim "A" mm (in) | Dim "B" mm (in) | Dim "C" mm (in) | Dry Weight kg (lb) |
|--------------------|--------------------|--------------------|-----------------------|
| 1400 (55.1) | 620 (24.4) | 996 (39.2) | 296 (653) |

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

APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO 3046, ISO 8528, NEMA MG1-33, EAC, CE, UKCA.

Note: Codes may not be available in all model configurations. Please consult your Cat dealer 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 Generator temperature rise is based on a 40° C ambient per IEC60034-1.

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