

# Cat® C4.4

## Diesel Generator Sets



### Standby & Prime: 50 Hz & 60 Hz



Image shown might not reflect actual configuration.

|                       |                                       |
|-----------------------|---------------------------------------|
| Engine Model          | Cat® C4.4 Inline 4-stroke Diesel      |
| Bore x Stroke         | 105.0 mm x 127.0 mm (4.1 in x 5.0 in) |
| Displacement          | 4.4 L (268.5 in³)                     |
| Compression Ratio     | 18.3:1                                |
| Aspiration            | Turbocharged Air To Air Charge Cooled |
| Fuel Injection System | Inline                                |
| Governor              | Electronic                            |

| Model   | Standby             |                      | Prime               |                     | Emission Strategy |
|---------|---------------------|----------------------|---------------------|---------------------|-------------------|
| DE110E2 | 50 Hz               | 60 Hz                | 50 Hz               | 60 Hz               | EU II             |
|         | 110.0 kVA (88.0 kW) | 125.0 kVA (100.0 kW) | 100.0 kVA (80.0 kW) | 113.0 kVA (90.4 kW) |                   |

### PACKAGE PERFORMANCE

| Performance   | Standby      |              | Prime        |              |
|---|--------------|--------------|--------------|--------------|
| Frequency   | 50 Hz        | 60 Hz        | 50 Hz        | 60 Hz        |
| Genset Power Rating   | 110.0 kVA    | 125.0 kVA    | 100.0 kVA    | 113.0 kVA    |
| Genset power rating with fan @ 0.8 power factor                 | 88.0 kW      | 100.0 kW     | 80.0 kW      | 90.4 kW      |
| Emissions   | EU II        |              |              |              |
| Performance Number  | P2634B       | P2634A       | P2634B       | P2634A       |
| Fuel Consumption  |              |              |              |              |
| Fuel Tank Capacity, litres (US gal)                             | 250 (66.0)   |              |              |              |
| 100% load with fan, L/hr (gal/hr)                               | 23.8 (6.3)   | 28.5 (7.5)   | 21.7 (5.7)   | 25.7 (6.8)   |
| 75% load with fan, L/hr (gal/hr)                                | 18.0 (4.8)   | 21.5 (5.7)   | 16.5 (4.4)   | 19.6 (5.2)   |
| 50% load with fan, L/hr (gal/hr)                                | 12.6 (3.3)   | 15.2 (4.0)   | 11.7 (3.1)   | 14.1 (3.7)   |
| Cooling System¹   |              |              |              |              |
| Radiator air flow, m³/min (CFM)                                 | 187.8 (6632) | 244.2 (8624) | 187.8 (6632) | 244.2 (8624) |
| Total coolant capacity, L (gal)                                 | 17.5 (4.6)   |              |              |              |
| Inlet Air   |              |              |              |              |
| Max. Combustion Air Intake Restriction, kPa (in water)          | 8.0 (32.1)   |              |              |              |
| Combustion air inlet flow rate, m³/min (CFM)                    | 6.3 (221)    | 7.8 (275)    | 6.0 (212)    | 7.8 (274)    |
| Max. Allowable Combustion Air Inlet Temp, °C (°F)               | 50 (122)     |              |              |              |
| Exhaust System  |              |              |              |              |
| Exhaust stack gas temperature, °C (°F)                          | 543 (1009)   | 574 (1065)   | 514 (957)    | 517 (963)    |
| Exhaust gas flow rate, m³/min (CFM)                             | 16.3 (576)   | 20.4 (720)   | 15.2 (537)   | 18.4 (650)   |
| Exhaust system backpressure (maximum allowable), kPa (in water) | 18.0 (72.3)  | 15.0 (60.2)  | 18.0 (72.3)  | 15.0 (60.2)  |
| Heat Rejection  |              |              |              |              |
| Heat rejection to jacket water, kW (BTU/min)                    | 50.7 (2883)  | 64.0 (3640)  | 46.1 (2622)  | 57.7 (3281)  |
| Heat rejection to alternator, kW (BTU/min)                      | 7.8 (444)    | 8.3 (472)    | 7.8 (444)    | 8.3 (472)    |
| Heat rejection to atmosphere from engine, kW (BTU/min)          | 15.3 (870)   | 17.7 (1007)  | 13.7 (779)   | 15.7 (893)   |

## C4.4 Diesel Generator Sets Electric Power

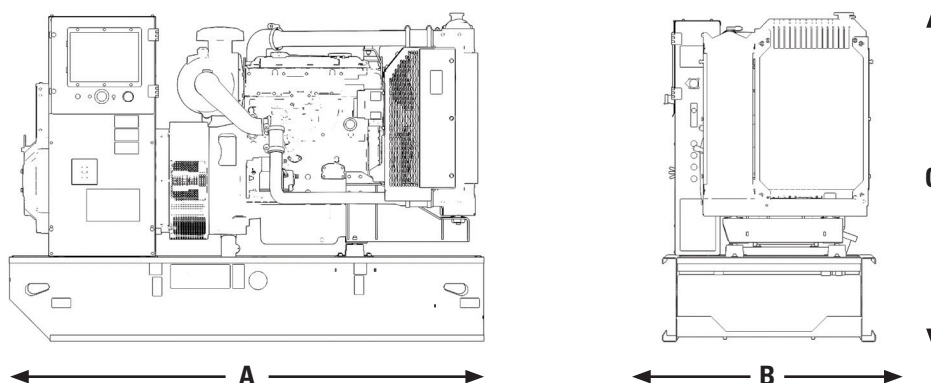


| Alternator <sup>2</sup>          |  | 50 Hz   |         |         |         |         |         |         |         |         |         |
|----------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Duty Cycle                       |  | Standby |         |         |         |         | Prime   |         |         |         |         |
| Phase                            |  | 3-Phase |         |         |         |         | 3-Phase |         |         |         |         |
| Voltages, V                      |  | 200/115 | 220/127 | 380/220 | 400/230 | 415/240 | 200/115 | 220/127 | 380/220 | 400/230 | 415/240 |
| Current, Amps                    |  | 318     | 289     | 167     | 159     | 153     | 289     | 262     | 152     | 144     | 139     |
| Frame: LC3114F<br>Excitation: SE | Temperature Rise, @ 40°C                           | 163     | 163     | 163     | 163     | 163     | 125     | 125     | 125     | 125     | 125     |
|                                  | Motor Starting Capability<br>30% Voltage Dip, skVA | 240     | 282     | 220     | 240     | 256     | 240     | 282     | 220     | 240     | 256     |

| Alternator <sup>2</sup>          |  | 60 Hz   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|----------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Duty Cycle                       |  | Standby |         |         |         |         |         |         |         | Prime   |         |         |         |         |         |         |         |
| Phase                            |  | 3-Phase |         |         |         |         |         |         |         | 3-Phase |         |         |         |         |         |         |         |
| Voltages, V                      |  | 208/120 | 220/127 | 220/110 | 240/139 | 240/120 | 380/220 | 440/254 | 480/277 | 208/120 | 220/127 | 220/110 | 240/139 | 240/120 | 380/220 | 440/254 | 480/277 |
| Current, Amps                    |  | 347     | 328     | 328     | 300.7   | 300.7   | 189.9   | 164     | 150.4   | 313.7   | 296.5   | 296.5   | 271.8   | 271.8   | 171.7   | 148.3   | 135.9   |
| Frame: LC3114D<br>Excitation: SE | Temperature Rise, @ 40°C                             | 130     | 130     | 150     | 105     | 130     | 150     | 130     | 105     | 105     | 125     | 125     | 80      | 105     | 125     | 105     | 80      |
|                                  | Motor Starting Capability<br>@ 30% Voltage Dip, skVA | 219     | 242     | 188     | 280     | 219     | 187     | 242     | 280     | 219     | 188     | 188     | 280     | 219     | 187     | 242     | 280     |

## WEIGHTS & DIMENSIONS



| Dim "A"<br>mm (in) | Dim "B"<br>mm (in) | Dim "C"<br>mm (in) | Dry Weight<br>kg (lb) |
|--------------------|--------------------|--------------------|-----------------------|
| 2089 (82.2)        | 1120 (44.1)        | 1375 (54.1)        | 1129 (2490)           |

**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 ISO 3046 standard conditions.

## DEFINITIONS AND CONDITIONS

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

<sup>2</sup> Generator temperature rise is based on a 40°C ambient per IEC60034-1.

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