

Standby & Prime: 60Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|---|
| Engine Model | Cat® C18 ATAAC™ In-line 6, 4-cycle diesel |
| Bore x Stroke | 145mm x 183mm (5.7in x 7.2in) |
| Displacement | 18.13 L (1106.3 in³) |
| Compression Ratio | 14:1 |
| Aspiration | Turbocharged Air-to-Air Aftercooled |
| Fuel Injection System | Electronic Unit Injection |
| Governor | Electronic ADEM™ A4 |

| Model | Standby | Prime | Emission Strategy |
|------------|-------------------------|-------------------------|--------------------|
| C18 | 750 ekW, 938 kVA | 680 ekW, 850 kVA | EPA TIER II |

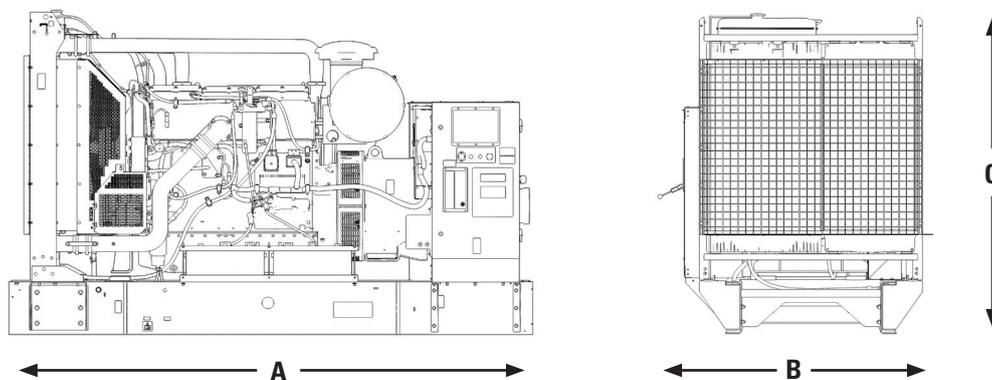
PACKAGE PERFORMANCE

| Performance | Standby | Prime |
|---|---------------|---------------|
| Frequency | 60 Hz | |
| Genset Power Rating | 938 kVA | 850 kVA |
| Genset power rating with fan @ 0.8 power factor | 750 ekW | 680 ekW |
| Emissions | EPA TIER II | |
| Performance Number | EM3842 | EM3843 |
| Fuel Consumption | | |
| 100% load with fan, L/hr (gal/hr) | 205.5 (54.2) | 188.5 (49.7) |
| 75% load with fan, L/hr (gal/hr) | 164.3 (43.4) | 146.3 (38.6) |
| 50% load with fan, L/hr (gal/hr) | 108.9 (28.7) | 100.3 (26.5) |
| 25% load with fan, L/hr (gal/hr) | 63.5 (16.7) | 59.4 (15.6) |
| Cooling System¹ | | |
| Radiator air flow restriction (system), kPa (in. Water) | 0.12 (0.48) | 0.12 (0.48) |
| Radiator air flow, m³/min (cfm) | 900 (31783) | 900 (31783) |
| Engine coolant capacity, L (gal) | 20.8 (5.5) | 20.8 (5.5) |
| Radiator coolant capacity, L (gal) | 77 (20.3) | 77 (20.3) |
| Total coolant capacity, L (gal) | 97.8 (25.8) | 97.8 (25.8) |
| Inlet Air | | |
| Combustion air inlet flow rate, m³/min (cfm) | 67.3 (2376) | 65.6 (2316) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 49 (120) | 49 (120) |
| Exhaust System | | |
| Exhaust stack gas temperature, °C (°F) | 452.9 (847.2) | 432.9 (811.2) |
| Exhaust gas flow rate, m³/min (cfm) | 170.7 (6028) | 161 (5686) |
| 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) | 225 (12795) | 208 (11828) |
| Heat rejection to exhaust (total) kW (Btu/min) | 714 (40604) | 664 (37761) |
| Heat rejection to aftercooler, kW (Btu/min) | 272 (15468) | 253 (14387) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 142 (8075) | 123 (6995) |

| Emissions (Nominal) ² | Standby | Prime |
|-----------------------------------|--------------|-------------|
| NOx, mg/Nm ³ (g/hp-hr) | 2468 (5.42) | 2213 (4.91) |
| CO, mg/Nm ³ (g/hp-hr) | 100.1 (0.22) | 75.6 (0.17) |
| HC, mg/Nm ³ (g/hp-hr) | 23.5 (0.06) | 24.1 (0.06) |
| PM, mg/Nm ³ (g/hp-hr) | 11.7 (0.03) | 10.6 (0.03) |

| Alternator ³ | | | | | |
|---|-------------|-------------|-----------|-------------|------------|
| Voltages | 208V | 220V | 240V | 480V | 600V |
| Motor starting capability @ 30% Voltage Dip | 1917 skVA | 2129 skVA | 2501 skVA | 2512 skVA | 2512 skVA |
| Current | 2602.2 amps | 2460.3 amps | 2512 amps | 1127.6 amps | 902.1 amps |
| Frame Size | LC7224N | LC7224L | LC7224L | LC7224L | LC7224L |
| Excitation | AREP | AREP | AREP | AREP | AREP |
| Temperature Rise | 130 °C | 130 °C | 130 °C | 105 °C | 130 °C |

WEIGHTS & DIMENSIONS



| Dim "A" mm (in) | Dim "B" mm (in) | Dim "C" mm (in) | Dry Weight kg (lb) |
|-----------------|-----------------|-----------------|--------------------|
| 3512 (138) | 1746 (69) | 2322 (92) | 4863 (10721) |

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.

LET'S DO THE WORK.™

LEHE1772-04 (05/20)

www.Cat.com/electricpower
All rights reserved.

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. © 2020 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.