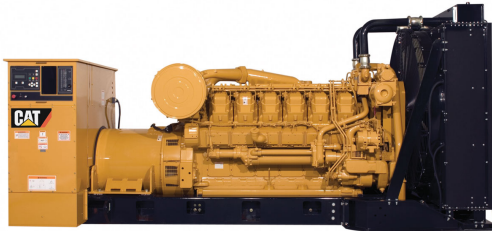


3512

800 ekW/ 1000 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor

Rating Type: CONTINUOUS

Fuel Strategy: LOW FUEL CONSUMPTION



3512
800 ekW/ 1000 kVA
50 Hz/ 1500 rpm/ 400 V

Image shown may not reflect actual configuration

Metric

English

| Package Performance | | |
|---|----------|-----------|
| Genset Power Rating with Fan @ 0.8 Power Factor | 800 ekW | |
| Genset Power Rating | 1000 kVA | |
| Aftercooler (Separate Circuit) | 82.0 ° C | 179.6 ° F |

| Fuel Consumption | | |
|--------------------|------------|-------------|
| 100% Load with Fan | 209.5 L/hr | 55.3 gal/hr |
| 75% Load with Fan | 161.1 L/hr | 42.5 gal/hr |
| 50% Load with Fan | 113.3 L/hr | 29.9 gal/hr |
| 25% Load with Fan | 67.7 L/hr | 17.9 gal/hr |

| Cooling System ¹ | | |
|---|---------|----------|
| Engine Coolant Capacity | 156.8 L | 41.4 gal |
| Radiator Water Capacity High Temp Circuit | 130 L | 34 gal |
| Radiator Water Capacity Low Temp Circuit | N/A | N/A |
| Radiator Total Capacity | 130 L | 34 gal |

| Inlet Air | | |
|--|--------------------------|------------|
| Combustion Air Inlet Flow Rate | 74.6 m ³ /min | 2634.2 cfm |
| Max. Allowable Combustion Air Inlet Temp | 85 ° C | 185 ° F |

| Exhaust System | | |
|---|---------------------------|----------------|
| Exhaust Stack Gas Temperature | 448.4 ° C | 839.1 ° F |
| Exhaust Gas Flow Rate | 187.8 m ³ /min | 6631.3 cfm |
| Exhaust System Backpressure (Maximum Allowable) | 6.7 kPa | 27.0 in. water |



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| Heat Rejection | | |
|---|--------|---------------|
| Heat Rejection to Jacket Water | 485 kW | 27581 Btu/min |
| Heat Rejection to Exhaust (Total) | 804 kW | 45723 Btu/min |
| Heat Rejection to Aftercooler | 87 kW | 4970 Btu/min |
| Heat Rejection to Atmosphere from Engine | 107 kW | 6085 Btu/min |
| Heat Rejection to Atmosphere from Generator | 39 kW | 2195 Btu/min |

| Alternator ² | |
|---|-----------|
| Motor Starting Capability @ 30% Voltage Dip | 2883 skVA |
| Current | 1443 amps |
| Frame Size | 1424 |
| Excitation | IE |
| Temperature Rise | 105 ° C |

| Emissions (Nominal) ³ | | |
|----------------------------------|-----|-----|
| NOx | N/A | N/A |
| CO | N/A | N/A |
| HC | N/A | N/A |
| PM | N/A | N/A |

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. 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.
3. 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.

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.

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Rating Type: CONTINUOUS

Fuel Strategy: LOW FUEL CONSUMPTION

CONTINUOUS:Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous power rating. Typical peak demand is 100% of continuous rated ekW for 100% of operating hours.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions

Fuel Rates are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 15° C (59° F) and weighing 850 g/liter (7.094 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Cat representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

Performance No.: DM8220-01

Feature Code: 512DRA7

Generator Arrangement: 2523774

Date: 06/22/2021

Source Country: U.S.

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