

C18 ACERT
484 ekW/ 605 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor

Rating Type: STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION

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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 | 484 ekW | |
| Genset Power Rating | 605 kVA | |
| Aftercooler (Separate Circuit) | N/A | N/A |

| Fuel Consumption | | |
|--------------------|------------|-------------|
| 100% Load with Fan | 122.7 L/hr | 32.4 gal/hr |
| 75% Load with Fan | 92.0 L/hr | 24.3 gal/hr |
| 50% Load with Fan | 64.0 L/hr | 16.9 gal/hr |
| 25% Load with Fan | 37.2 L/hr | 9.8 gal/hr |

| Cooling System ¹ | | |
|-----------------------------|--------|---------|
| Engine Coolant Capacity | 20.8 L | 5.5 gal |

| Inlet Air | | |
|--|--------------------------|------------|
| Combustion Air Inlet Flow Rate | 31.6 m ³ /min | 1117.5 cfm |
| Max. Allowable Combustion Air Inlet Temp | 49 ° C | 121 ° F |

| Exhaust System | | |
|---|--------------------------|----------------|
| Exhaust Stack Gas Temperature | 553.8 ° C | 1028.8 ° F |
| Exhaust Gas Flow Rate | 92.1 m ³ /min | 3251.0 cfm |
| Exhaust System Backpressure (Maximum Allowable) | 10.0 kPa | 40.0 in. water |



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| Heat Rejection | | |
|---|--------|---------------|
| Heat Rejection to Jacket Water | 157 kW | 8945 Btu/min |
| Heat Rejection to Exhaust (Total) | 449 kW | 25525 Btu/min |
| Heat Rejection to Aftercooler | 76 kW | 4313 Btu/min |
| Heat Rejection to Atmosphere from Engine | 84 kW | 4784 Btu/min |
| Heat Rejection to Atmosphere from Generator | 34 kW | 1945 Btu/min |

| Alternator² | |
|---|-----------|
| Motor Starting Capability @ 30% Voltage Dip | 1376 skVA |
| Current | 873 amps |
| Frame Size | LC7024F |
| Excitation | AR |
| Temperature Rise | 130 ° C |

| Emissions (Nominal)³ | | |
|--|---------------------------|-------------|
| NOx | 3762.8 mg/Nm ³ | 7.7 g/hp-hr |
| CO | 656.7 mg/Nm ³ | 1.3 g/hp-hr |
| HC | 3.2 mg/Nm ³ | 0.0 g/hp-hr |
| PM | 12.6 mg/Nm ³ | 0.0 g/hp-hr |

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.

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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.

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 29° C (85° F) and weighing 838.9 g/liter (7.001 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.

www.Cat-ElectricPower.com

Performance No.: DM9820-02

Feature Code: C18DF5T

Generator Arrangement: 3921383

Date: 11/10/2015

Source Country: U.K.

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