

C18

600 ekW/ 750 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Rating Type: STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION



Image shown may not reflect actual configuration

C18

600 ekW/ 750 kVA
60 Hz/ 1800 rpm/ 480 V

Metric

English

Package Performance

Genset Power Rating with Fan @ 0.8 Power Factor	600 ekW	
Genset Power Rating	750 kVA	
Aftercooler (Separate Circuit)	N/A	N/A

Fuel Consumption

100% Load with Fan	163.0 L/hr	43.0 gal/hr
75% Load with Fan	119.5 L/hr	31.6 gal/hr
50% Load with Fan	81.1 L/hr	21.4 gal/hr
25% Load with Fan	47.2 L/hr	12.5 gal/hr

Cooling System¹

Engine Coolant Capacity	N/A	N/A
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Inlet Air

Combustion Air Inlet Flow Rate	48.7 m ³ /min	1719.2 cfm
Max. Allowable Combustion Air Inlet Temp	49 ° C	120 ° F

Exhaust System

Exhaust Stack Gas Temperature	511.4 ° C	952.5 ° F
Exhaust Gas Flow Rate	132.3 m ³ /min	4670.4 cfm
Exhaust System Backpressure (Maximum Allowable)	N/A	N/A

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Heat Rejection

Heat Rejection to Jacket Water	181 kW	10313 Btu/min
Heat Rejection to Exhaust (Total)	615 kW	34960 Btu/min
Heat Rejection to Aftercooler	152 kW	8652 Btu/min
Heat Rejection to Atmosphere from Engine	111 kW	6330 Btu/min
Heat Rejection to Atmosphere from Generator	41 kW	2332 Btu/min

Alternator²

Motor Starting Capability @ 30% Voltage Dip	1633 skVA
Current	902 amps
Frame Size	LC7024F
Excitation	AR
Temperature Rise	150 ° C

Emissions (Nominal)³

NOx	2622.7 mg/Nm ³	5.5 g/hp-hr
CO	65.0 mg/Nm ³	0.1 g/hp-hr
HC	5.6 mg/Nm ³	0.0 g/hp-hr
PM	5.4 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.: DM9834-01

Feature Code: C18DF8X

Generator Arrangement: 3921383

Date: 07/15/2017

Source Country: U.K.

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