ELECTRIC POWER - Technical Spec Sheet
STANDARD

C15 ACERT
440 ekW/ 550 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor

Rating Type: STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION

Image shown may not reflect actual configuration

C15 ACERT
440 ekW/ 550 kVA
50 Hz/ 1500 rpm/ 400 V

	Metric	English
Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	440 ekW	
Genset Power Rating	550 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
Fuel Consumption		
100% Load with Fan	112.5 L/hr	29.7 gal/hr
75% Load with Fan	84.1 L/hr	22.2 gal/hr
50% Load with Fan	59.1 L/hr	15.6 gal/hr
25% Load with Fan	35.6 L/hr	9.4 gal/hr
Cooling System[1]		
Engine Coolant Capacity	N/A	N/A
Inlet Air		
Combustion Air Inlet Flow Rate	29.9 m³/min	1056.8 cfm
Max. Allowable Combustion Air Inlet Temp	48 ° C	119 ° F
Exhaust System		
Exhaust Stack Gas Temperature	527.0 ° C	980.5 ° F
Exhaust Gas Flow Rate	86.0 m³/min	3037.7 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water

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Heat Rejection		
Heat Rejection to Jacket Water	166 kW	9441 Btu/min
Heat Rejection to Exhaust (Total)	398 kW	22635 Btu/min
Heat Rejection to Aftercooler	83 kW	4715 Btu/min
Heat Rejection to Atmosphere from Engine	70 kW	3975 Btu/min
Heat Rejection to Atmosphere from Generator	27 kW	1513 Btu/min

Alternator[2]	
Motor Starting Capability @ 30% Voltage Dip	1213 skVA
Current	794 amps
Frame Size	LC6114F
Excitation	SE
Temperature Rise	163 ° C

Emissions (Nominal)[3]		
NOx	3689.6 mg/Nm³	7.3 g/hp-hr
CO	168.2 mg/Nm³	0.3 g/hp-hr
HC	5.8 mg/Nm³	0.0 g/hp-hr
PM	7.0 mg/Nm³	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 35º API [16º C (60º F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29º C (85º 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.: DM8495-03

Feature Code: C15DG2P

Generator Arrangement: 3921379

Date: 07/05/2016

Source Country: U.K.

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