ELECTRIC POWER - Technical Spec Sheet
STANDARD

C13

350 ekW/ 438 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Rating Type: PRIME

Fuel Strategy: LOW FUEL CONSUMPTION

Image shown may not reflect actual configuration

C13

350 ekW/ 438 kVA

60 Hz/ 1800 rpm/ 480 V

	Metric	English
Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	350 ekW	
Genset Power Rating	438 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
Fuel Consumption		
100% Load with Fan	93.7 L/hr	24.7 gal/hr
75% Load with Fan	71.5 L/hr	18.9 gal/hr
50% Load with Fan	50.7 L/hr	13.4 gal/hr
25% Load with Fan	30.9 L/hr	8.2 gal/hr
Cooling System[1]		
Engine Coolant Capacity	N/A	N/A
Inlet Air		
Combustion Air Inlet Flow Rate	24.7 m³/min	873.5 cfm
Max. Allowable Combustion Air Inlet Temp	45 ° C	112 ° F
Exhaust System		
Exhaust Stack Gas Temperature	546.9 ° C	1016.3 ° F
Exhaust Gas Flow Rate	71.5 m³/min	2524.9 cfm
Exhaust System Backpressure (Maximum Allowable)	N/A	N/A

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Heat Rejection		
Heat Rejection to Jacket Water	144 kW	8183 Btu/min
Heat Rejection to Exhaust (Total)	332 kW	18877 Btu/min
Heat Rejection to Aftercooler	55 kW	3135 Btu/min
Heat Rejection to Atmosphere from Engine	63 kW	3574 Btu/min
Heat Rejection to Atmosphere from Generator	24 kW	1382 Btu/min

Alternator[2]	
Motor Starting Capability @ 30% Voltage Dip	1055 skVA
Current	526 amps
Frame Size	LC6124B
Excitation	AR
Temperature Rise	125 ° C

Emissions (Nominal)[3]		
NOx	2678.9 mg/Nm³	5.3 g/hp-hr
CO	664.6 mg/Nm³	1.3 g/hp-hr
HC	4.7 mg/Nm³	0.0 g/hp-hr
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.

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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.

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 ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 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.: EM0435-03

Feature Code: C13DE12

Generator Arrangement: 4215087

Date: 06/13/2017

Source Country: U.K.

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