

**C13 ACERT**  
**320 ekW/ 400 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor**

Rating Type: **STANDBY**

Fuel Strategy: **LOW FUEL CONSUMPTION**



**C13 ACERT**  
**319 ekW/ 399 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	319 ekW	
Genset Power Rating	399 kVA	
Aftercooler (Separate Circuit)	N/A	N/A

Fuel Consumption		
100% Load with Fan	83.5 L/hr	22.0 gal/hr
75% Load with Fan	61.9 L/hr	16.4 gal/hr
50% Load with Fan	43.7 L/hr	11.5 gal/hr
25% Load with Fan	26.1 L/hr	6.9 gal/hr

Cooling System <sup>1</sup>		
Engine Coolant Capacity	14.2 L	3.8 gal

Inlet Air		
Combustion Air Inlet Flow Rate	22.4 m <sup>3</sup> /min	789.9 cfm
Max. Allowable Combustion Air Inlet Temp	49 ° C	120 ° F

Exhaust System		
Exhaust Stack Gas Temperature	529.2 ° C	984.5 ° F
Exhaust Gas Flow Rate	62.8 m <sup>3</sup> /min	2216.2 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water



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<b>Heat Rejection</b>		
Heat Rejection to Jacket Water	128 kW	7271 Btu/min
Heat Rejection to Exhaust (Total)	290 kW	16484 Btu/min
Heat Rejection to Aftercooler	53 kW	3037 Btu/min
Heat Rejection to Atmosphere from Engine	53 kW	3041 Btu/min
Heat Rejection to Atmosphere from Generator	26 kW	1479 Btu/min

<b>Alternator<sup>2</sup></b>	
Motor Starting Capability @ 30% Voltage Dip	793 skVA
Current	575 amps
Frame Size	A2925L4
Excitation	SE
Temperature Rise	163 ° C

<b>Emissions (Nominal)<sup>3</sup></b>		
NOx	2730.6 mg/Nm <sup>3</sup>	5.3 g/hp-hr
CO	750.5 mg/Nm <sup>3</sup>	1.5 g/hp-hr
HC	8.0 mg/Nm <sup>3</sup>	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.

**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](http://www.Cat-ElectricPower.com)

Performance No.: EM0425-02

Feature Code: U.K: C13DE43, China:C13DE53

Generator Arrangement: 5027413

Date: 05/12/2016

Source Country: U.K. or China

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