

**C15 ACERT**  
**400 ekW/ 500 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor**

Rating Type: PRIME

Fuel Strategy: LOW FUEL CONSUMPTION



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**400 ekW/ 500 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	400 ekW	
Genset Power Rating	500 kVA	
Aftercooler (Separate Circuit)	N/A	N/A

**Fuel Consumption**

100% Load with Fan	102.0 L/hr	26.9 gal/hr
75% Load with Fan	76.2 L/hr	20.1 gal/hr
50% Load with Fan	54.0 L/hr	14.3 gal/hr
25% Load with Fan	32.7 L/hr	8.6 gal/hr

**Cooling System<sup>1</sup>**

Engine Coolant Capacity	N/A	N/A
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**Inlet Air**

Combustion Air Inlet Flow Rate	28.1 m <sup>3</sup> /min	992.2 cfm
Max. Allowable Combustion Air Inlet Temp	40 ° C	105 ° F

**Exhaust System**

Exhaust Stack Gas Temperature	511.3 ° C	952.4 ° F
Exhaust Gas Flow Rate	79.2 m <sup>3</sup> /min	2797.7 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	149 kW	8458 Btu/min
Heat Rejection to Exhaust (Total)	360 kW	20485 Btu/min
Heat Rejection to Aftercooler	75 kW	4272 Btu/min
Heat Rejection to Atmosphere from Engine	46 kW	2605 Btu/min
Heat Rejection to Atmosphere from Generator	23 kW	1308 Btu/min

<b>Alternator<sup>2</sup></b>	
Motor Starting Capability @ 30% Voltage Dip	1033 skVA
Current	722 amps
Frame Size	A2985L4
Excitation	SE
Temperature Rise	125 ° C

<b>Emissions (Nominal)<sup>3</sup></b>		
NOx	3438.4 mg/Nm <sup>3</sup>	6.8 g/hp-hr
CO	170.2 mg/Nm <sup>3</sup>	0.3 g/hp-hr
HC	5.3 mg/Nm <sup>3</sup>	0.0 g/hp-hr
PM	7.9 mg/Nm <sup>3</sup>	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.

**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 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.: DM8494-01

FeatureCode:U.K:C15DEGL,China:C1DEH

L Generator Arrangement: 5027417

Date: 05/12/2016

Source Country: U.K.or China

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