ELECTRIC POWER - Technical Spec Sheet
STANDARD

C15 ACERT
365 ekW/ 456 kVA/ 60 Hz/ 1800 rpm/ 220 V/ 0.8 Power Factor

Rating Type: PRIME

Fuel Strategy: LOW FUEL CONSUMPTION



Image shown may not reflect actual configuration

C15 ACERT
365 ekW/ 456 kVA
60 Hz/ 1800 rpm/ 220 V

	Metric	English
Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	365 ekW	
Genset Power Rating	456 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
Fuel Consumption		
100% Load with Fan	97.8 L/hr	25.8 gal/hr
75% Load with Fan	75.2 L/hr	19.9 gal/hr
50% Load with Fan	53.9 L/hr	14.3 gal/hr
25% Load with Fan	33.9 L/hr	8.9 gal/hr
Cooling System[1]		
Engine Coolant Capacity	20.8 L	5.5 gal
Inlet Air		
Combustion Air Inlet Flow Rate	28.8 m³/min	1017.3 cfm
Max. Allowable Combustion Air Inlet Temp...	47.7 °C	117.9 ° F
Exhaust System		
Exhaust Stack Gas Temperature	515.0 °C	959.0 ° F
Exhaust Gas Flow Rate	78.1 m³/min	2759.4 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water

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Heat Rejection		
Heat Rejection to Jacket Water	159 kW	9042 Btu/min
Heat Rejection to Exhaust (Total)	366 kW	20813 Btu/min
Heat Rejection to Aftercooler	58 kW	3326 Btu/min
Heat Rejection to Atmosphere from Engine	43 kW	2457 Btu/min
Heat Rejection to Atmosphere from Generator	19.2 kW	1092 Btu/min

Alternator[2]	
Motor Starting Capability @ 30% Voltage Dip	1325 skVA
Current	1197 amps
Frame Size	GTA311AE41
Excitation	Auxiliary Coil
Temperature Rise	125 ° C

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Emissions (Nominal)[3]		
NOx	3440.1 mg/Nm³	6.8 g/hp-hr
CO	192.5 mg/Nm³	0.4 g/hp-hr
HC	5.7 mg/Nm³	0.0 g/hp-hr
PM	43.4 mg/Nm³	0.1 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.

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.

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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.: DM8160-03

Feature Code: C15DF9X

Generator Arrangement: 4653028

Date: 13/11/2015

Source Country: BRAZIL

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