

3516B

2250 ekW/ 2812 kVA/ 60 Hz/ 1800 rpm/ 12470 V/ 0.8 Power Factor

Rating Type: MISSION CRITICAL STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION

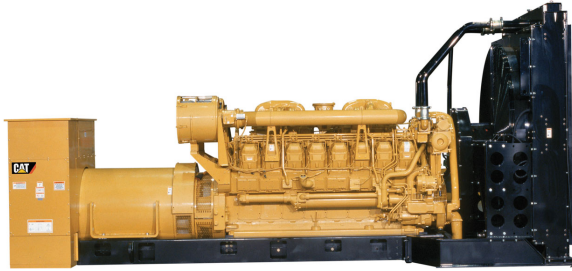


Image shown may not reflect actual configuration

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	Metric	English
Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	2250 ekW	
Genset Power Rating	2812 kVA	
Aftercooler (Separate Circuit)	60.0 ° C	140.0 ° F
Fuel Consumption		
100% Load with Fan	593.8 L/hr	156.9 gal/hr
75% Load with Fan	439.3 L/hr	116.1 gal/hr
50% Load with Fan	308.0 L/hr	81.4 gal/hr
25% Load with Fan	186.3 L/hr	49.2 gal/hr
Cooling System¹		
Engine Coolant Capacity	N/A	N/A
Inlet Air		
Combustion Air Inlet Flow Rate	185.7 m ³ /min	6557.2 cfm
Max. Allowable Combustion Air Inlet Temp	85 ° C	185 ° F
Exhaust System		
Exhaust Stack Gas Temperature	486.0 ° C	906.8 ° F
Exhaust Gas Flow Rate	494.0 m ³ /min	17443.4 cfm
Exhaust System Backpressure (Maximum Allowable)	6.7 kPa	27.0 in. water



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Heat Rejection		
Heat Rejection to Jacket Water	847 kW	48168 Btu/min
Heat Rejection to Exhaust (Total)	2234 kW	127045 Btu/min
Heat Rejection to Aftercooler	602 kW	34235 Btu/min
Heat Rejection to Atmosphere from Engine	163 kW	9270 Btu/min
Heat Rejection to Atmosphere from Generator	96 kW	5471 Btu/min

Alternator ²	
Motor Starting Capability @ 30% Voltage Dip	4478 skVA
Current	130 amps
Frame Size	2770
Excitation	PM
Temperature Rise	105 ° C

Emissions (Nominal) ³		
NOx	3619.9 mg/Nm ³	7.5 g/hp-hr
CO	366.6 mg/Nm ³	0.8 g/hp-hr
HC	15.9 mg/Nm ³	0.0 g/hp-hr
PM	44.8 mg/Nm ³	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.

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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.

MISSION CRITICAL STANDBY:Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the standby power rating. Typical peak demand up to 100% of standby rated ekW for 5% of the operating time. 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

Performance No.: EM0472-00

Feature Code: 516DE8N

Generator Arrangement: 2526184

Date: 01/23/2018

Source Country: U.S.

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