

3516B

1400 ekW/ 1750 kVA/ 50 Hz/ 1500 rpm/ 11000 V/ 0.8 Power Factor

Rating Type: CONTINUOUS

Fuel Strategy: LOW FUEL CONSUMPTION

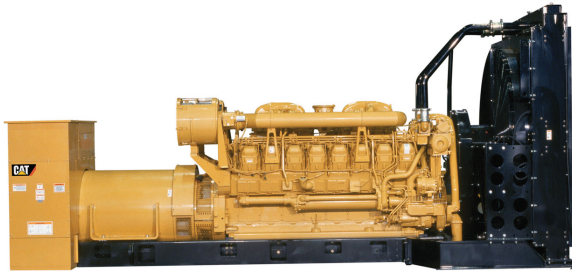


Image shown may not reflect actual configuration

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	Metric	English
Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	1400 ekW	
Genset Power Rating	1750 kVA	
Aftercooler (Separate Circuit)	90.0 ° C	194.0 ° F
Fuel Consumption		
100% Load with Fan	357.4 L/hr	94.4 gal/hr
75% Load with Fan	273.7 L/hr	72.3 gal/hr
50% Load with Fan	195.3 L/hr	51.6 gal/hr
25% Load with Fan	118.1 L/hr	31.2 gal/hr
Cooling System¹		
Engine Coolant Capacity	233.0 L	61.6 gal
Inlet Air		
Combustion Air Inlet Flow Rate	109.1 m ³ /min	3852.5 cfm
Max. Allowable Combustion Air Inlet Temp	96 ° C	205 ° F
Exhaust System		
Exhaust Stack Gas Temperature	495.9 ° C	924.6 ° F
Exhaust Gas Flow Rate	294.7 m ³ /min	10406.3 cfm
Exhaust System Backpressure (Maximum Allowable)	6.7 kPa	27.0 in. water



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Heat Rejection		
Heat Rejection to Jacket Water	604 kW	34349 Btu/min
Heat Rejection to Exhaust (Total)	1344 kW	76433 Btu/min
Heat Rejection to Aftercooler	188 kW	10692 Btu/min
Heat Rejection to Atmosphere from Engine	142 kW	8075 Btu/min
Heat Rejection to Atmosphere from Generator	64 kW	3662 Btu/min

Alternator ²	
Motor Starting Capability @ 30% Voltage Dip	4399 skVA
Current	92 amps
Frame Size	2760
Excitation	PM
Temperature Rise	105 ° C

Emissions (Nominal) ³		
NOx	4343.1 mg/Nm ³	8.8 g/hp-hr
CO	224.8 mg/Nm ³	0.5 g/hp-hr
HC	57.3 mg/Nm ³	0.1 g/hp-hr
PM	21.8 mg/Nm ³	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.

CONTINUOUS:Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous power rating. Typical peak demand is 100% of continuous rated ekW for 100% of operating hours.

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.: DM7942-01

Feature Code: 516DR7Z

Generator Arrangement: 2524238

Date: 09/08/2017

Source Country: CHINA

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