

Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

Caterpillar is leading the power generation marketplace with



Generator Set Specifications	
Minimum Rating	830 ekW (910 kVA)
Maximum Rating	1000 ekW (1250 kVA)
Voltage	220 to 4160
Frequency	50 or 60 Hz
Speed	1500 or 1800 RPM

Generator Set Configurations	
Emissions/Fuel Strategy	Low Fuel Consumption, Low Emissions, EPA Certified for Stationary Emergency Application (Emits Equivalent U.S. EPA Tier 2 Nonroad Standards)

Engine Specifications		
Engine Model	C32 TA, V-12, 4-Stroke Water-Cooled Diesel	
Bore	145 mm	5.71 in
Displacement	32.1 L	1958.86 in ³
Stroke	162 mm	6.38 in
Compression Ratio		15.0:1
Aspiration		TA
Governor Type		Adem™A4
Fuel System		MEUI

Benefits and Features

Cat Diesel Engine

Reliable, rugged, durable design

Field-proven in thousands of applications worldwide

Four-stroke-cycle diesel engine combines consistent performance and excellent fuel economy with minimum weight

SS-9249201-18332039-017



Generator

Matched to the performance and output characteristics of Cat engines Industry leading mechanical and electrical design Industry leading motor starting capabilities High Efficiency

Cat EMCP Control Panel

The EMCP controller features the reliability and durability you have come to expect from your Cat equipment. EMCP4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP4 systems can be further customized to meet your needs through programming and expansion modules.

Seismic Certification

Seismic Certification available.

Anchoring details are site specific, and are dependent on many factors such as generator set size, weight, and concrete strength.

IBC Certification requires that the anchoring system used is reviewed and approved by a Professional Engineer Seismic Certification per Applicable Building Codes: IBC 2000, IBC 2003, IBC 2006, IBC 2009, CBC 2007, CBC 2010

Pre-approved by OSHPD and carries an OSP-0321-10 for use in healthcare projects in California

Standard Equipment

Air Inlet

Air Cleaner

Cooling

• Package mounted radiator

Exhaust

• Exhaust flange outlet

Fuel

- · Primary fuel filter with integral water separator
- Secondary fuel filter
- Fuel priming pump

Generator

- Matched to the performance and output characteristics of Cat engines
- Load adjustment module provides engine relief upon load impact and improves load acceptance and recovery time
- IP23 Protection

Power Termination

Bus Bar

Control Panel

• EMCP 4 Genset Controller

General

• Paint - Caterpillar Yellow except rails and radiators gloss black



Optional Equipment

Exhaust

Exhaust mufflers

Generator

- Excitation: [] Permanent Magnet Excited (PM) [] Internally Excited (IE)
- Anti-condensation heater
- Oversize and premium generators

Power Termination

- Circuit breakers, UL listed
- Circuit breakers, IEC compliant

Control Panels

- EMCP (4.2) (4.3) (4.4)
- Generator temperature monitoring & protection
- Load share module
- Digital I/O module
- Remote monitoring software

Mounting

- Rubber anti-vibration mounts
- Spring-type vibration isolator
- IBC isolators

Starting/Charging

- Battery chargers
- Oversize batteries
- Jacket water heater
- Heavy-duty starting system
- Charging alternator
- · Air starting motor with control and silencer

General

- The following options are based on regional and product configuration:
- Seismic Certification per applicable building codes: IBC 2000, IBC 2003, IBC 2006, IBC 2009, CBC 2007
- UL 2200 package
- EU Certificate of Conformance (CE)
- CSA Certification
- EEC Declaration of Conformity
- Enclosures: sound attenuated, weather protective
- Automatic transfer switches (ATS)
- Integral & sub-base fuel tanks
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· Integral & sub-base UL listed dual wall fuel tanks

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Rating Type: PRIME

Fuel Strategy: LOW FUEL CONSUMPTION

C32 ACERT

880 ekW/ 1100 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	880 ekW	
Genset Power Rating	1100 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
-uel Consumption		
100% Load with Fan	220.7 L/hr	58.3 gal/hr
75% Load with Fan	164.8 L/hr	43.5 gal/hr
50% Load with Fan	116.1 L/hr	30.7 gal/hr
25% Load with Fan	68.7 L/hr	18.1 gal/hr
Cooling System ¹		
Engine Coolant Capacity	N/A	N/A
nlet Air		
Combustion Air Inlet Flow Rate	67.9 m³/min	2397.4 cfm
Max. Allowable Combustion Air Inlet Temp	49 ° C	120 ° F
Exhaust System		
Exhaust Stack Gas Temperature	440.6 ° C	825.2 ° F
Exhaust Gas Flow Rate	170.3 m³/min	6012.6 cfm

Exhaust System Backpressure (Maximum Allowable)

6.7 kPa

27.0 in. water

880 ekW/ 1100 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor



Rating Type: PRIME

Fuel Strategy: LOW FUEL CONSUMPTION

Heat Rejection		
Heat Rejection to Jacket Water	308 kW	17537 Btu/min
Heat Rejection to Exhaust (Total)	752 kW	42748 Btu/min
Heat Rejection to Aftercooler	196 kW	11173 Btu/min
Heat Rejection to Atmosphere from Engine	124 kW	7071 Btu/min
Heat Rejection to Atmosphere from Generator	43 kW	2468 Btu/min

Alternator ²	
Motor Starting Capability @ 30% Voltage Dip	2883 skVA
Current	1588 amps
Frame Size	1424
Excitation	IE
Temperature Rise	125 ° C

Emissions (Nominal) ³		
NOx	3185.5 mg/Nm ³	6.2 g/hp-hr
CO	209.4 mg/Nm ³	0.4 g/hp-hr
HC	5.6 mg/Nm ³	0.0 g/hp-hr
РМ	11.3 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.

880 ekW/ 1100 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor



Rating Type: PRIME

Fuel Strategy: LOW FUEL CONSUMPTION

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

Performance No.: EM0745-01 Feature Code: C32DR44 Generator Arrangement: 4326122 Date: 09/01/2016 Source Country: U.S.

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