



Caterpillar is leading the power generation marketplace with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

Specifications

Generator Set Specifications		
Minimum Rating	275 ekW (275 kVA)	
Maximum Rating	400 ekW (400 kVA)	
Voltage	220 to 480 Volts	
Frequency	50 or 60 Hz	
Speed	1500 or 1800 RPM	

Generator Set Configurations	
Emissions/Fuel Strategy	Low Fuel Consumption

Engine Specifications	
Engine Model	3406C TA, I-6, 4-Stroke Water-Cooled Diesel
Bore	137.2 mm 5.4 in
Displacement	14.64 L 893.39 in3
Stroke	165.1 mm 6.5 in
Compression Ratio	14.5:1
Aspiration	TA
Governor Type	Hydra-mechanical
Fuel System	P&L



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

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.

Design Criteria

The generator set accepts 100% rated load in one step per NFPA 110 and meets ISO 8528-5 transient response.

UL 2200 / CSA - Optional

- UL 2200 listed packages
- CSA Certified
- Certain restrictions may apply.
- · Consult with your Cat® Dealer.

Single-Source Supplier

Fully prototype tested with certified torsional vibration analysis available

World Wide Product Support

Cat Dealers provide extensive post sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries. The Cat® SOSSM program cost effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products.

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Electric Power



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

Mounting

· Rubber vibration isolators

Starting/Charging

- 24 volt starting motor
- Batteries

General

Paint - Caterpillar Yellow except rails and radiators gloss black



Optional Equipment

Exhaust

Industrial, Residential, Critical 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)
- Local & remote annunciator modules
- Load share module
- Digital I/O module
- Remote monitoring software

Starting/Charging

- Battery chargers
- Oversize batteries
- Jacket water heater
- Heavy-duty starting system
- Charging alternator

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**
- Narrow, Wide or Skid Base
- Sound attenuated, weather protective or high ambient weather protective enclosure
- Single or dual wall integral fuel tanks
- Single or dual wall sub-base fuel tanks
- Integral & sub-base UL listed dual wall fuel tanks
- Automatic transfer switches (ATS)

3406C Generator Set **Electric Power**



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ELECTRIC POWER - Technical Spec Sheet STANDARD



Rating Type: PRIME

365 ekW/ 456 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Fuel Strategy: LOW FUEL CONSUMPTION



CAY

Image shown may not reflect actual configuration

3406C 365 ekW/ 456 kVA 60 Hz/ 1800 rpm/ 480 V

	Metric	English	
ackage Performance			
Genset Power Rating with Fan @ 0.8 Power Factor	365 e	365 ekW	
Genset Power Rating	456 kVA		
Aftercooler (Separate Circuit)	78.0 ° C	172.4 ° F	
uel Consumption			
100% Load with Fan	98.4 L/hr	26.0 gal/hr	
75% Load with Fan	72.5 L/hr	19.2 gal/hr	
50% Load with Fan	50.5 L/hr	13.4 gal/hr	
25% Load with Fan	30.4 L/hr	8.0 gal/hr	
cooling System¹			
Engine Coolant Capacity	34.1 L	9.0 gal	
ılet Air			
Combustion Air Inlet Flow Rate	30.2 m³/min	1066.4 cfm	
Max. Allowable Combustion Air Inlet Temp	93 ° C	199 ° F	
xhaust System			
Exhaust Stack Gas Temperature	540.1 ° C	1004.2 ° F	
Exhaust Gas Flow Rate	86.9 m³/min	3068.7 cfm	
Exhaust System Backpressure (Maximum Allowable)	6.7 kPa	27.0 in. water	

ELECTRIC POWER - Technical Spec Sheet STANDARD



365 ekW/ 456 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor



Rating Type: PRIME Fuel Strategy: LOW FUEL CONSUMPTION

Heat Rejection		
Heat Rejection to Jacket Water	225 kW	12797 Btu/min
Heat Rejection to Exhaust (Total)	346 kW	19679 Btu/min
Heat Rejection to Aftercooler	48 kW	2719 Btu/min
Heat Rejection to Atmosphere from Engine	81 kW	4590 Btu/min
Heat Rejection to Atmosphere from Generator	20 kW	1160 Btu/min

Alternator ²			
Motor Starting Capability @ 30% Voltage Dip	1712 skVA		
Current	549 amps		
Frame Size	LC6124F		
Excitation	AR		
Temperature Rise	80 ° C		

Emissions (Nominal) ³		
NOx	2923.6 mg/Nm³	6.2 g/hp-hr
CO	433.7 mg/Nm³	0.9 g/hp-hr
HC	23.1 mg/Nm³	0.0 g/hp-hr
PM	50.1 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.

ELECTRIC POWER - Technical Spec Sheet STANDARD



365 ekW/ 456 kVA/ 60 Hz/ 1800 rpm/ 480 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, 72/23/EEC, 98/37/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.: DM2274-03

Feature Code: 406DER8

Generator Arrangement: 2351212

Date: 06/09/2015

Source Country: U.S.

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