



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	13.0 kVA
Maximum Rating	22.0 kVA
Emissions/Fuel Strategy	R96/EUIIIa Equivalent
Voltage	110 to 415 Volts
Frequency	50 Hz
Speed	1500 rpm
Duty Cycle	Standby, Prime

Engine Specifications	
Engine Model	Cat® C2.2, In-line 4, 4-cycle diesel
Bore	84 mm / 3.3 in
Stroke	100 mm / 3.9 in
Displacement	2.2 l / 135.2 in ³
Compression Ratio	22.5:1
Aspiration	Naturally Aspirated
Fuel System	Indirect Injection
Governor Type	Mechanical

Generator Set Dimensions	
Length - Maximum	1500 mm / 59.1 in
Width - Maximum	620 mm / 24.4 in
Height - Maximum	1115 mm / 43.9 in

Benefits and Features

Cat Generator Set Package

- Cat generator set packages have been fully prototype tested
- Accepts 100% block load in one step and meets NFPA 110 loading requirements
- Conform to ISO 8528-5 steady state and transient response requirements

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

SR5 Alternator

- Superior motor starting capability minimizes need for oversizing alternator
- Designed to match performance and output characteristics of Cat diesel engines
- Robust Class H insulation

EMCP Control Panel

- User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirement
- Expansion modules and site-specific programming for specific customer requirements

Cooling System

- Designed to operate in standard ambient temperatures up to 55°C (131°F)
- Contact your Cat Dealer for specific ambient and altitude capabilities

Certifications

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.

One Safe Source

- Components used in the generator set are selected based on seamless design integration to provide the optimum performance
- The generator set is fully assembled at a Caterpillar facility following our quality guidelines
- Each generator set package is tested before leaving the Caterpillar facility
- Cat product support, including dealer service, parts and warranty covers the entire Cat power system

World Wide Product Support

- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

Standard Equipment

Air Inlet System

- Air cleaner; light duty with disposable element
- Air cleaner; light duty with disposable element

Control Panel

- EMCP 4.1
- EMCP4.1 control panel

Cooling System

- Caterpillar extended life coolant

- Fan drive, battery charging alternator drive
- Radiator and cooling fan with guards
- Coolant drain line with valve
- Radiator and cooling fan with guards

Exhaust System

- Stub pipe, gaskets, raincap & SAE exhaust flange for customer use; shipped loose
- Stub pipe, gaskets, raincap & SAE exhaust flange for customer use; shipped loose

Fuel System

- Standard open set fuel tank / base supplied
- Base, formed steel with single wall integral 8-hour fuel tank
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- Base, formed steel with single wall integral 8-hour fuel tank

Generators and Generator Attachments

- Segregated low voltage (AC/DC) wiring panel
- Circuit breaker, IEC, 3 pole, mounted in tower panel
- Voltage regulator (single phase sensing)
- Tower panel, IP22, bottom cable entry
- 12 leads
- IP23 Protection
- 12 leads
- Tower panel, IP22, bottom cable entry
- Segregated low voltage (AC/DC) wiring panel
- IP23 Protection

Governing System

- Mechanical governing system
- Mechanical governing system

Lube System

- Oil drain line with valve
- Lubricating oil
- Lubricating oil
- Oil drain line with valve

Mounting System

- Captive linear vibration isolators between base and engine-generator
- Includes lifting provisions and termination points for coolant
- includes lifting provisions and termination points for coolant
- Captive linear vibration isolators between base and engine-generator

Starting / Charging System

- 12 Volt battery with rack and cables

- 12V battery with rack and cables

General

- Engine and alternator pre-paint, Caterpillar yellow

Optional Equipment

Alternator Options

- Coastal insulation protection

Certificates

- European upgrade to STD set for CE certificate
- Global certification for CIS

Circuit Breakers

- 4 Pole circuit breaker
- Pad-locable breaker device

Control Panel Options

- Battery charger
- Volt free contacts for genset running
- Volt free contacts for common alarm
- EMCP 4.2
- Emergency stop with key

Cooling System

- Coolant heater

Enclosures

- Sound attenuated enclosure (GALV)
- Single point lift for enclosure

Fuel System

- Low fuel level alarm

Mounting Options

- Industrial silencer removal
- Silencer installation kit
- Battery removal

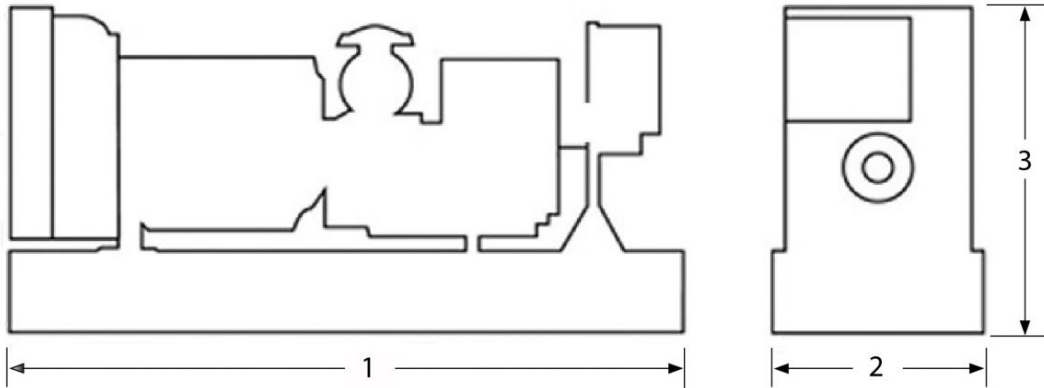
Special Test and Inspection

- PGS test report @ 1.0 power factor

General

- Packing Case - compact set
- Radiator Stone Guard
- Packing case - canopied set

Dimensional Art



Dimensions	Dimension 1	Dimension 2	Dimension 3
Genset dimensions	1500 mm (59.1 in)	620 mm (24.4 in)	1115 mm (43.9 in)

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, S•O•S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.