



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

Specifications

Generator Set Specifications		
Height - Maximum	1626 mm	64 in
Length - Maximum	2500 mm	98.4 in
Width - Maximum	1320 mm	52 in
Minimum Rating	120 ekW	
Maximum Rating	175 ekW	
Voltage	208 to 480 Volts	
Frequency	60 Hz	
Speed	1800 RPM	

Generator Set Configurations	
Emissions/Fuel Strategy	Non Regulated

Engine Specifications		
Engine Model	C7.1 I-6, 4-Cycle Diesel	
Compression Ratio	16.5:1	
Aspiration	Turbocharged, Air to Air Aftercooled	
Governor Type	ADEM™ A4	
Fuel System	Common Rail	
Bore	105 mm	4.13 in
Displacement	7.01 B	427.8 in ³
Stroke	135 mm	5.31 in

Benefits and Features

Design Criteria

C7.1 ACERT

Electric Power



The generator set is designed to meet ISO8528-5 transient response and NFPA 110.

Cooling system designed to operate in 50°C / 122°F ambient temperatures with an air flow restriction of 0.5 in. water

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

IP 23 Protection

Cat EMCP Control Panel

The EMCP controller features the reliability and durability you have come to expect from your Cat equipment.

The EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules. The EMCP4.1 is fitted as standard

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 Caterpillar S•O•SSM program cost effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products

Single-Source Supplier

Fully prototype tested with certified torsional vibration analysis available

CE Certification

CE Certification available

General

Single wall 8 hour wide fuel tank

Circuit breaker, IEC, 3 pole

Industrial Silencer (10 dBA)

Standard Equipment

Air Inlet System

- Air Cleaner; light duty with disposable element

Control Panels

- EMCP 4.1

Cooling System

- Radiator and cooling fan with guards
- Coolant drain line with valves
- Fan drive, battery charging alternator drive
- Caterpillar extended life coolant

Exhaust System

C7.1 ACERT

Electric Power



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

Generator and Generator Attachments

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

Fuel System

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

Starting / Charging System

- 24V battery with rack and cables

Governing System

- Mechanical and electrical governing system - model dependent

Lube System

- Lubricating oil
- Oil drain line with valve

Mounting System

- Termination points for coolant and lube oil drain lines
- Captive linear vibration isolators between base and engine-generator
- Includes lifting provision and drag points

General

- Engine and alternator pre-paint, Caterpillar Yellow

Optional Equipment

Alternator System

- R frame auxiliary winding: R2273L4 SE aux alt 07, aux alt 08 and aux alt 10
- Alternator removal
- Optional LC frame alternators
- Optional LC frame alternator with coastal insulation protection
- Permanent magnet
- 3 Phase sensing
- Quatrature droop king
- Anti-condensation heater

Circuit Breakers

- 4 Pole 250A, 400A and 630A Circuit Breakers
- Padlockable breaker device

Control System

- EMCP 4.2
- Static battery charger
- Control panel heater
- Volt free contacts for common alarm
- Volt free contacts for generator set running

Control Panel Options

- Volt free contacts
- Speed adjust contacts
- Speed adjust potentiometer
- Panel mounted audible alarm
- Earth fault (2 wire only)
- Earth leakage (2 wire only)
- Overload shutdown via breaker
- Battery charger
- Emergency stop with key
- Control panel heater

Enclosures

- Sound attenuated levels 1 and 2 enclosures
- Rental options (CAE only) - Single point lift
- Rental options (CAE only) - Rental pack
- Rental options (CAE only) - CEE form sockets for enclosure
- Rental options (CAE only) - Socket blanking plate

Cooling System

- Coolant heater
- Low coolant temperature
- Low coolant level shutdown

European Certifications

- Upgrade to STD set for CE

Fuel Systems

- Open set narrow tankbase
- Skidbase for CALG enclosure sets
- DEFRA bunded fuel tank
- High fuel level alarm
- Compact skidbase for open sets
- Low fuel level shutdown
- Low fuel level alarm

Test Reports

- PGS test report @ 1.0 power factor
- PGS test report @ 0.8 power factor

General

- Stone guards / radiator trans flange

Global Certifications

- Certification for CIS

Mounting Options

- Residential silencer
- Silencer installation kit
- Electronic governor
- Battery removal
- Industrial silencer removal

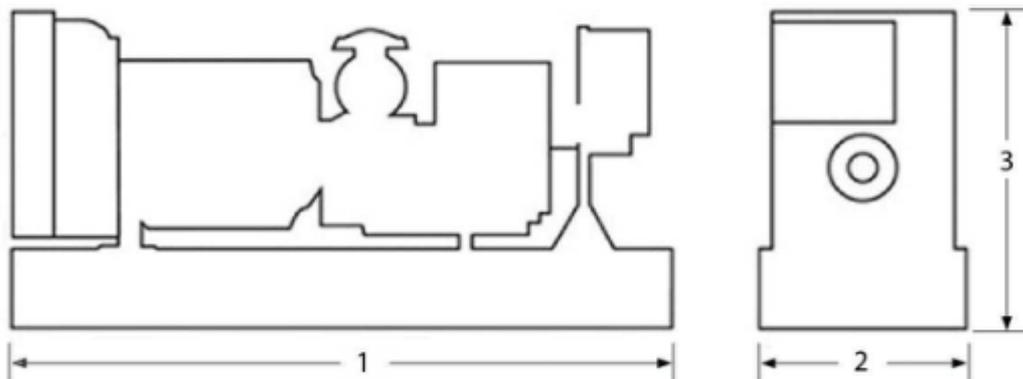
Power Termination

- Circuit breaker, IEC, 4 pole

Accessories / Miscellaneous

- Packing case - compact set
- Packing case - canopied set

Dimensional Art



Dimensions	Dimension 1	Dimension 2	Dimension 3
Packaged genset	2500 mm (98.4 in)	1320 mm (52.0 in)	1626 mm (64.0 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.