



Image shown may not reflect actual configuration

Engine Specifications	
Engine Model	C18 ACERT In-line 6, 4-cycle diesel
Bore	145 mm (5.7 in)
Stroke	183 mm (7.2 in)
Displacement	18.1 L (1106 in ³)
Compression Ratio	14.5:1
Aspiration	Turbocharged Air to Air Aftercooled
Fuel System	MEUI
Governor Type	ADEM A4

Standard Features

Cat Generator Set Package

Cat generator set packages have been fully prototype tested, and certified torsional vibration analysis reports are available. The packages are designed to meet the NFPA 110 requirement for loading, conform to the ISO 8528-5 steady state and transient response requirements.

Cat Diesel Engines

The four cycle Cat diesel engine combines consistent performance with excellent fuel economy and transient response that meets or exceeds ISO 8528-5. The engines feature a reliable, rugged, and durable design that has been field proven in thousands of applications worldwide from emergency standby installations.

Cooling System

The cooling system has been designed to operate in standard ambient temperatures up to 50°C (122°F), with optional high ambient radiators available. The factory installed cooling system has been designed and tested to ensure proper generator set cooling, and includes the radiator, fan, belts, and all guarding installed as standard. Contact your Cat Dealer for specific ambient and altitude capabilities.

Generators

The generators used on Cat packages have been designed and tested to work with the Cat engine. The generators are built with robust Class H insulation and provide industry leading motor starting capability.

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® SOSM program cost effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products.

EMCP Control Panels

The EMCP controller features the reliability and durability you have to 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.

Equipment

Engine

Air Cleaner

- Single Element
- Dual Element
- Heavy Duty

Muffler

- Industrial grade (10 dBA)
- Residential and Critical grade (25 dBA)

Starting / Charging

- 24-Volt Electric Starting Motor
- Charging Alternator
- Standard Battery Set
- Oversize Battery Set

Control System

Controller

- EMCP 4.2
- EMCP 4.4
- Local Annunciator
- Remote Annunciators
- Discrete I/O Module
- Device Server
- Volt Free Contact
- Earth (Ground) Fault Relay

Generator

- Excitation – Self
- Excitation – Internal / AREP
- Excitation – PMG
- Oversize
- Coastal Protection (CIP)
- Space Heater Control

Output Voltage

60 Hz

- 600V ○ 220V
- 480V ○ 208V
- 240V

Power Termination

- Power Terminal Strips

Circuit Breakers

- 3-Pole 100% Rated – Single (Manual)
- 3-Pole 100% Rated – Single (Motorized)
- 3-Pole 100% Rated – Dual (Manual)
- 3-Pole 100% Rated – Third (Manual)
- External Paralleling
- Auxiliary Contacts
- Neutral Bar

Enclosure

- Weather Protective
- Sound Attenuated

Certification

- EPA Stationary Emergency Use
- UL2200 Listed
- CSA 22.2
- Certification of Compliance – IBC Seismic
- Certification of Compliance – IBC Seismic and OSHPD

Extended Service Coverage

- 2 Year
- 3 Year
- 4 Year
- 5 Year
- 10 Year

Base / Fuel Tank

- Narrow Skid
- Wide / Standard
- Sub Tank Base – UL & ULC Listed
- Integral Tank Base – UL & ULC Listed
- Spill Containment
- Overfill Prevention Valve
- Audio & Visual Fuel Alarm

Governing

- Cat Electronic Governor

Protection

- Safety Shutoff – High Water Temperature
- Safety Shutoff – Low Oil Pressure
- Safety Shutoff – Overspeed
- Coolant Level Sensor

Legend ● = Basic / Mandatory (without charge)
○ = Option



60Hz Ratings

Standby Rating ekW	Prime Rating ekW	Nominal Weight (Dry) ¹		Premium Weight (Dry) ²	
		kg	lb	kg	lb
550	500	3772	8317	4431	9769
600	545	3878	8549	4431	9769

¹Estimated weight includes standard generator, narrow skid base and heaviest mechanically operated standard single circuit breaker. ²Estimated weight includes oversize generator, wide skid base and heaviest circuit breaker configuration.

Rating Definitions

Standby

Output available with varying load for the duration of the interruption of the reliable source power. Standby power in accordance with ISO 8528.

Prime

Output available with varying load for an unlimited time. Prime power in accordance with ISO 8528. 10% overload power in accordance with ISO 8528.

www.Cat-ElectricPower.com

©2016 Caterpillar
All rights reserved.

Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.

CAT, CATERPILLAR, their respective logos, ACERT, ADEM, S•O•S, “Caterpillar Yellow”, 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.