

# PRODUCT SPECIFICATIONS FOR G3520C

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## GENERATOR SET SPECIFICATIONS

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<b>Maximum Continuous Rating</b>	2050 ekW
<b>Fuel Type</b>	Natural Gas, Biogas, Coal Gas
<b>Maximum Electrical Efficiency</b>	40.10%
<b>Maximum Standby Rating</b>	2050
<b>Frequency</b>	50 / 60 Hz
<b>RPM</b>	1200 / 1500 / 1800 rpm

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## ENGINE SPECIFICATIONS

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<b>Engine Model</b>	G3520C
<b>Displacement</b>	5270 in <sup>3</sup>
<b>Aspiration</b>	TA
<b>Bore</b>	6.7 in
<b>Stroke</b>	7.5 in
<b>Fuel System</b>	Natural Gas, Biogas, Coal Gas
<b>Compression Ratio</b>	11.3

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## GENERATOR SET DIMENSIONS

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<b>Length</b>	249 in
<b>Width</b>	79 in
<b>Height</b>	92 in
<b>Dry Weight - Genset</b>	37959 lb
<b>Weight</b>	37953 lb

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# G3520C STANDARD EQUIPMENT

## AIR INLET

Two-element single-stage air cleaner with enclosure and service indicator

## CONTROL PANELS

EMCP 4.3

## COOLING

ANSI Class 6 in/DN customer flange connections for JW inlet and outlet

Engine driven water pumps for jacket water and aftercooler

2nd Stage SCAC-Cat Flange

Jacket water and SCAC driven pumps

Jacket water and SCAC thermostat and outlet--ANSI 6 in/DN150

## EXHAUST

Dry exhaust manifolds, insulated and shielded

Cat-flanged face outlet on turbocharger

Individual exhaust port and turbocharger outlet wired to Integrated Temperature Sensing Module (ITSM) with GECM providing alarms and shutdowns

## FUEL SYSTEM

Fuel system is sized for 31.5 to 47.2 MJ/NM<sup>3</sup> dry pipeline natural gas with pressure of 10.2 to 34.5KPa to the engine fuel control valve

Electronic fuel metering valve, ANSI flange

Throttle plate, 24V DC actuator, controlled by GECM

24V ETR Gas Shutoff Valve

## IGNITION SYSTEM

Electronic Ignition System (controlled by GECM)

Individual Cylinder Detonation Sensitive Timing (DST)

## GENERATOR

3-phase brushless, salient pole

Class F Insulation & temperature rise

Reactive droop

Permanent Magnet Excitation

Winding temperature detectors

Anti-condensation space heater

SR4B or SR5

Busbar connections

Caterpillar's Digital Voltage Regulator (CDVR) with 3-phase sensing and KVAR/PF control

SR4B

#### GENERAL

Crankshaft Vibration Damper and Guard

RH Service

Parts Book

Operation and maintenance manuals

Paint - Caterpillar Yellow except rails and radiators gloss black

## G3520C OPTIONAL EQUIPMENT

#### AIR INLET

Enclosure Mounting Brackets and Piping

Mounting stand

Air cleaner with precleaner

#### CONTROL PANEL

Custom 8-Light Alarm Module

Local NFPA99-110 Alarm Module w/LEDs

Remote 24-32V 8/16 Annunciator

Synchronizing Module

PL1000E/PL1000T Communications Module

Engine Failure Relay

#### CONTROL PANELS

Local alarm module

## COOLING

Inlet/Outlet connections

Engine pumps

Aftercooler air lines, aftercooler core replacement

Jacket water coolant heater

## EXHAUST

Mufflers (15/18/25 dBA Attenuation) and spark-arresting muffler with ANSI companion flanges

Exhaust expanders

Flexible fittings

305/360/406 mm Elbow Kits

## FUEL SYSTEM

14-69 kPa (2-10 psi) gas pressure regulator

Fuel filter

24V DC Gas shutoff valve

207-276kPa, 30-40 psi gas knockdown regulator

## GENERATOR

Generator Removal

Annunciator Modules

Medium and high voltage generators and attachment

60 Hz--480/4160 Volt Generator Options

Cable access box

Generator air filter

European Bus Bars

Low voltage extension box

Bearing temperature detectors

8.7/15 kV Class Current Transformers (CCCT, DCT, CT)

50 Hz--3300/6600 Volt Generator Options

## GOVERNING SYSTEM

Load share module

## STARTING/CHARGING

Jacket water heater

Battery disconnect switch

24V starting motors

Battery with cables and rack (shipped loose)

60A, 24V charging alternator (requires engine driven pumps)