

Product Specifications For G3520C



Generator Set Specifications

Continuous Rating	1972 ekW
Fuel Type	Low Energy, Biogas, Coal Gas
Maximum Electrical Efficiency	40.10%
Maximum Standby Rating	1972
Frequency	50 / 60 Hz
RPM	1200 / 1500 / 1800 rpm

Engine Specifications

Engine Model	G3520C
Displacement	86 l
Aspiration	TA
Bore	170 mm
Stroke	190 mm
Fuel System	Low Energy, Biogas, Coal Gas
Compression Ratio	11.3

Generator Set Dimensions

Length	6312 mm
Width	1830 mm
Height	2340 mm

Dry Weight - Genset	17215 kg
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Weight	17215 kg
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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 GECEM providing alarms and shutdowns

Fuel System

Fuel system is sized for 31.5 to 47.2 MJ/NM3 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 GECEM

24V ETR Gas Shutoff Valve

Ignition System

Electronic Ignition System (controlled by GECEM)

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 diconnect switch
24V starting motors
Battery with cables and rack (shipped loose)
60A, 24V charging alternator (requires engine driven pumps)