

Product Specifications For G3520C



Generator Set Specifications

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

Engine Specifications

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

Generator Set Dimensions

Length	249 in
Width	79 in
Height	92 in

Dry Weight - Genset

37959 lb

Weight

37953 lb

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/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 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)