

# PRODUCT SPECIFICATIONS FOR G3520H

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## GENERATOR SET SPECIFICATIONS

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<b>Maximum Continuous Rating</b>	2519 / 2500 ekW @ 1.0pf
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<b>Fuel Type</b>	Natural Gas
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<b>Maximum Electrical Efficiency</b>	45.30%
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<b>Frequency</b>	50 / 60 Hz
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<b>RPM</b>	1500
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<b>Frequency</b>	50/60 Hz
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## ENGINE SPECIFICATIONS

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<b>Engine Model</b>	G3520H
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<b>Displacement</b>	5956 in <sup>3</sup>
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<b>Aspiration</b>	TA
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<b>Bore</b>	6.7 in
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<b>Stroke</b>	8.5 in
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<b>Compression Ratio</b>	12.1
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## GENERATOR SET DIMENSIONS

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<b>Length</b>	302 in
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<b>Width</b>	86 in
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<b>Height</b>	97 in
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<b>Dry Weight - Genset</b>	54675 lb
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## G3520H STANDARD EQUIPMENT

## CONTROL PANEL

EMCP 4.3

## AIR INLET

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

## COOLING

Engine driven water pumps for jacket water and aftercooler

Jacket water and SCAC thermostats

ANSI/DN customer flange connections for JW inlet and outlet

## CIRCUIT BREAKER

LSI Long-Time, Short-Time, Instantaneous Annunciator

Rear-mounted

5000A 3-Pole IEC Rated Circuit Breakers

## EXHAUST

Center section cooled turbocharger with Cat flanged outlet

Dry exhaust manifolds, insulated and shielded

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

## FUEL SYSTEM

Electronic fuel metering valve

Throttle plate, 24V DC actuator, controlled by GECM

## 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

## IGNITION SYSTEM

Electronic Ignition System (controlled by ADEM A4)

Individual Cylinder Detonation Sensitive Timing (DST)

## GENERATOR

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

SR4B

Crankshaft Vibration Damper and Guard

Busbar connections

Paint- Caterpillar Yellow except rails gloss black

Winding temperature detectors

Operation and maintenance manuals

Parts book

Anti-condensation space heater

RH Service

SR5

Reactive droop

#### GOVERNING SYSTEM

ADEM A4 4-20mA (0-5VV) Speed Input

## G3520H OPTIONAL EQUIPMENT

#### AIR INLET

Mounting Brackets and Piping

Air cleaner with precleaner

#### CIRCUIT BREAKER

MP- Frame 6 Pole Bottom Cable Entry

4000/5000A Neutral Current Transformer Automatic Selection

No UV trip or package mounted CB Wiring

Frame Mounting

#### CONTROL PANEL

16 Point/32 Light Annunciator, Shipped Loose

Remote Communications Module (PL1000T, PL1000E)

Remote annunciator

Local PC Monitoring

Discrete I/O Module, 12 Digital Inputs, 8 'Form C' Relay

Cat Connect: Ethernet, Satellite, Cell Telematics

Engine failure relay

Engine failure relay

Local alarm module

Synchronizing module

Remote PC Monitoring

## COOLING

Inlet/Outlet connections

Coolant level drain line with valves, fan with guard

## EXHAUST

Muffler and spark-arresting muffler with companion flanges

Flange

Elbow

Flexible Fitting

Exhaust Expander

## FUEL SYSTEM

Gas Knockdown Regulator

Fuel filter

Gas pressure regulator

Gas shutoff valve 24V, ETR (Energized-To-Run)

## GENERATOR

Bearing temperature detectors

Cable access box

Low voltage extension box

Manual voltage control

European bus bar

Generator air filter

Medium and high voltage generators and attachment

## GENERAL

Digital diagnostic tool

Special paint order

Tool set

US AID Emblem

#### STARTING/CHARGING

Battery with cables and rack (shipped loose)

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

24V starting motors

Jacket water heater