

Product Specifications For G3520H



Generator Set Specifications

Continuous Rating	2519 / 2500 ekW @ 1.0pf
Fuel Type	Natural Gas, Hydrogen Blend (up to 25%)
Maximum Electrical Efficiency	45.30%
Frequency	50 / 60 Hz
RPM	1500
Frequency	50/60 Hz

Engine Specifications

Engine Model	G3520H
Displacement	97.5 l
Aspiration	TA
Bore	170 mm
Stroke	215 mm
Compression Ratio	12.1

Generator Set Dimensions

Length	7668 mm
Width	2173 mm
Height	2473 mm
Dry Weight - Genset	25285 kg

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/NM³ 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 (0-5V) 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
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)

24V starting motors

Jacket water heater

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

Grid Code Compliance

60 Hz: USA

50 Hz: Germany, Great Britain, Belgium, Romania, Italy, Ireland, Poland, Netherlands, Spain, France, and European Standard