

Product Specifications For G3520 With FAST RESPONSE



Generator Set Specifications

Gas Standby Rating	2000 ekW @ 0.8pf
Fuel Type	Natural Gas, Hydrogen Blend (up to 5%)
Emissions/Fuel Strategy	U.S. EPA Stationary Non-Emergency Certified
Frequency	60 Hz
RPM	1800 rpm
Compression Ratio	11.5

Engine Specifications

Engine Model	G3520
Displacement	97.6 l
Aspiration	TA
Bore	170 mm
Stroke	215 mm

Generator Set Dimensions

Length	8534 mm
Width	2386 mm
Height	3230 mm
Weight	22000 kg

G3520 With FAST RESPONSE Standard Equipment

Air Inlet

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

Control Panel

Cat ECS 100

Cooling

Jacket water and SCAC engine-driven pumps

Jacket water and SCAC thermostats

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 GCEM 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

Engine-installed electronic control valve

Gas pressure regulator

Throttle plate, 24V DC actuator, controlled by GECM

24V DC energized-to-run (ETR) gas shutoff valve

General

Parts book

Paint- Caterpillar Yellow with high gloss black rails and radiator

Operation and maintenance manuals

Crankshaft vibration damper and guard

RH Service

Generator

Permanent Magnet Excitation

Integrated voltage regulator (IVR)

SR5

Winding temperature detectors

Anti-condensation space heater

NEMA Class H insulation

Starting/Charging

24V starting motors

Battery with cables and rack (shipped loose)

Jacket water heater

Electric Starter

Governing System

ADEM A4

Ignition System

Electronic Ignition System (controlled by ADEM A4)

Individual Cylinder Detonation Sensitive Timing (DST)

G3520 With FAST RESPONSE Optional Equipment

Air Inlet

Air cleaner with precleaner

Control Panel

EMCP 4.4

Local alarm module

Engine failure relay

Remote annunciator

Remote PC monitoring

Local PC monitoring

Circuit Breakers

1600A, 2000A 3 Pole, UL-100% Rated R-Frame Circuit Breakers

100% rated, 3-pole (UL/CSA/IEC) 5th Digit Rating

S LSI, G LSIG, P LSIG-P, 4th Digit Type

Frame mounting

3-pole (IEC 947-2 rated)

2000A, 2500A, 3000A 3 Pole, UL-100% Rated Masterpact Circuit Breakers

Cooling

Package mounted radiator

Coolant level drain line with valves, fan with guard

Exhaust

18, 25 dBA Attenuation

305mm (12 in) spark arresting muffler

305 mm (12in.) elbow

305 mm (12 in.) flange

305 mm (12 in.) muffler

Fuel System

3, 0-100 kPag, 4-20mA gas train pressure sensors

General

Digital diagnostic tool

Generator

Bearing temperature detectors

Generator air filter

Cable access box

European bus bars

Low voltage extension box

Starting/Charging

20A, 24VDC battery charger

45A, 24V charging alternator (requires engine driven pumps)

Grid Code Compliance

60 Hz: USA