

Product Specifications For G3520 With FAST RESPONSE



Generator Set Specifications

Gas Standby Rating	3120 ekW @ 1.0pf
Fuel Type	Natural Gas, Hydrogen Blend (up to 5%)
Emissions/Fuel Strategy	U.S. EPA Stationary Non-Emergency Certified
RPM	1800 rpm
Frequency	50 / 60 Hz
Maximum Electrical Efficiency	39.6%
Compression Ratio	10.2
Frequency	50/60 Hz
Speed	1800 RPM

Engine Specifications

Engine Model	G3520
Displacement	97.6 l
Aspiration	TA
Bore	170 mm
Stroke	215 mm
Compression Ratio	10.2:1

Generator Set Dimensions

Length	6597 mm
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Width	2188 mm
Height	2509 mm
Weight	21974 kg

G3520 With FAST RESPONSE Standard Equipment

Air Inlet

Single element air cleaner with package 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

Fuel System

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

Gas pressure regulator

Engine-installed electronic control valve

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

General

Paint- Caterpillar Yellow with high gloss black rails and radiator

Parts book

Operation and maintenance manuals

Crankshaft vibration damper and guard

RH Service

Generator

SR5 / N9500

Winding temperature detectors

Permanent Magnet Excitation

Integrated voltage regulator (IVR)

Anti-condensation space heater

NEMA Class H insulation

Cat Gearbox (50 Hz)

Starting/Charging

Electric Starter

Jacket water heater

24V starting motors

Battery with cables and rack (shipped loose)

Governing System

ADEM 6

Ignition System

Integrated Cylinder Pressure Sensor (ICPS)

Electronic Ignition System (controlled by ADEM)

G3520 With FAST RESPONSE Optional Equipment

Air Inlet

Air cleaner with precleaner

Control Panel

Engine failure relay

Remote PC monitoring

DIO Modules

Load Share Module

Cat ECS 200

CAN Wiring

Circuit Breakers

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

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

3-pole (IEC 947-2 rated)

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

Frame mounting

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

Cooling

Factory provided remote radiator

Exhaust

305 mm (12 in.) flange

305 mm (12in.) elbow

305mm (12 in) spark arresting muffler

305 mm (12 in.) muffler

18, 25 dBA Attenuation

Fuel System

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

General

Digital diagnostic tool

Generator

European bus bars

Low voltage extension box

Generator air filter

Cable access box

Bearing temperature detectors

Starting/Charging

20/35/50A, 24VDC battery charger

50A, 24V charging alternator (requires engine driven pumps)