

Generator Set Specifications

Gas Standby Rating	2500 ekW @ 0.8pf
Fuel Type	Natural Gas, Hydrogen Blend (up to 5%)
Emissions/Fuel Strategy	U.S. EPA Stationary Non-Emergency Certified
RPM	1800 rpm
Frequency	60 Hz
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

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

Dry exhaust manifolds, insulated and shielded

Fuel System

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

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

Throttle plate, 24V DC actuator, controlled by GCEM

General

Crankshaft vibration damper and guard

Operation and maintenance manuals

RH Service

Paint- Caterpillar Yellow with high gloss black rails and radiator

Parts book

Generator

SR5

Permanent Magnet Excitation

NEMA Class H insulation

Winding temperature detectors

Integrated voltage regulator (IVR)

Anti-condensation space heater

Starting/Charging

Battery with cables and rack (shipped loose)

24V starting motors

Electric Starter

Jacket water heater

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

Local alarm module
EMCP 4.4
Remote annunciator
Remote PC monitoring
Engine failure relay
Local PC monitoring

Circuit Breakers

2000A, 2500A, 3000A 3 Pole, UL-100% Rated Masterpact Circuit Breakers
100% rated, 3-pole (UL/CSA/IEC) 5th Digit Rating
3-pole (IEC 947-2 rated)
Frame mounting
1600A, 2000A 3 Pole, UL-100% Rated R-Frame Circuit Breakers
S LSI, G LSIG, P LSIG-P, 4th Digit Type

Cooling

Coolant level drain line with valves, fan with guard
Package mounted radiator

Exhaust

305 mm (12 in.) muffler
305 mm (12in.) elbow
18, 25 dBA Attenuation
305 mm (12 in.) flange
305mm (12 in) spark arresting muffler

Fuel System

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

General

Digital diagnostic tool

Generator

Low voltage extension box

Bearing temperature detectors

European bus bars

Cable access box

Generator air filter

Starting/Charging

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

20A, 24VDC battery charger

Grid Code Compliance

60 Hz: USA