

Product Specifications For G3520K



Generator Set Specifications

Continuous Rating	2567 / 2552 ekW @ 1.0pf
Fuel Type	Natural Gas & Propane
Maximum Electrical Efficiency	46.0%
Frequency	50 / 60 Hz
RPM	1500
Frequency	50/60 Hz

Engine Specifications

Engine Model	G3520K
Displacement	97.6 l
Aspiration	TA
Bore	170 mm
Stroke	215 mm
Compression Ratio	10.5:1

Generator Set Dimensions

Length	7375 mm
Width	1830 mm
Height	2463 mm
Dry Weight - Genset	23700 kg

G3520K Standard Equipment

Control Panel

ECS 100 with colored HMI
Ethernet Telematics

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.
SCAC control valve

Governing System

ADEM A6 4-20mA (0-5V) Speed Input

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
EN7462/CSAB149:3, NFPA37
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.

Generator

IVR - Intergrated voltage regulator
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/LH Service
SR5
Reactive droop

Lube

Electric Pre-lube pump

Starting/Charging

24V starting motors

Ignition System

Electronic Ignition System (controlled by ADEM 6)

In Cylinder Pressure Sensor (ICPS)

G3520K Optional Equipment

Control Panel

ECS 200 with colored HMI

Remote HMI displays

Cellular telematics

Expandable I/O

Expandable Ethernet modules

CAN 2 connection point

Load Share Module

Lube

Ship oil filled or dry(Ultra40)

SYNHP (only ship dry)

Oil Level Regulator

Starting/Charging

Battery with cables and rack (shipped loose)

Engine barring device

Jacket water heater (220/400/240/480V)

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

Circuit Breaker

LSI/LSIG/LSIG-P Long-Time, Short-Time, Instantaneous Annunciator, ground fault protect, ground fault annunciate

Non-par/Par Breakers

Rear-mounted

5000A 3-Pole IEC/ULCSA Rated Circuit Breakers

Air Inlet

Off Engine Air Cleaner - Mounting Brackets and Piping

Cooling

Inlet/Outlet RH and LH connections
Coolant level drain line with valves

Exhaust

Muffler and spark-arresting muffler with companion flanges
Flange, Elbow, and Flexible Fitting
Exhaust Expander

Fuel System

Gas Knockdown Regulator
Fuel filter
Gas pressure regulator
Gas shutoff valve 24V, Energized-To-Run (ETR)

Generator

Bearing temperature detectors
Cable access box
Low voltage extension box
Manual voltage control
NEMA/IEC Busbars
Generator air filter
Medium and high voltage generators and attachment
Generator space heater (with optional heater control)
Thermostate for space heater
Current transformer, differential current transformer, potential transformer

General

Digital diagnostic tool
Special paint order
Tool set
US AID Emblem

Package

Spring Isolators
Seismic Isolators

Grid Code Compliance

50 Hz: Germany (HV/MV), Great Britain, Italy (HV/MV), Belgium, Poland, Netherlands, Romania, Spain, France, Czech Republic, Greece, Ireland, and European Standard