

Product Specifications For G3512K



Generator Set Specifications

Continuous Rating	1530 ekW @ 1.0pf
Fuel Type	Natural Gas & Propane
Maximum Electrical Efficiency	45.3%
Frequency	50 / 60 Hz
RPM	1500
Speed	1500 RPM
Frequency	50/60 Hz

Engine Specifications

Engine Model	G3512K
Displacement	58.6 l
Aspiration	TA
Bore	170 mm
Stroke	215 mm
Compression Ratio	10.5
Governor Type	Adem 6

Generator Set Dimensions

Length	5466 mm
Width	1828 mm

Height

2273 mm

Dry Weight - Genset

16,820 kg

G3512K Standard Equipment

Cooling

Engine driven water pumps for jacket water and aftercooler.

SCAC control valve

Jacket water and SCAC thermostats.

ANSI/DN customer flange connections for JW inlet and outlet.

Control Panel

ECS 100 with colored HMI

Ethernet Telematics

Air Inlet

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

Governing System

ADEM 6

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

EN7462/CSAB149:3, NFPA37

Throttle plate, 24V DC actuator, controlled by GECM

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

Operation and maintenance manuals

Busbar connections

IVR - Intergrated voltage regulator

Paint- Caterpillar Yellow except rails gloss black

Parts book

Reactive droop

Winding temperature detectors
Crankshaft Vibration Damper and Guard
RH/LH Service
Anti-condensation space heater
SR5 / N9500

Lube

Electric Pre-lube pump

Starting/Charging

24V starting motors

Ignition System

Integrated Cylinder Pressure Sensor (ICPS)
Electronic Ignition System (controlled by ADEM 6)

G3512K Optional Equipment

Control Panel

Load Share Module
ECS 200 with colored HMI
Cellular telematics
Expandable Ethernet modules
Remote HMI displays
CAN 2 connection point
Expandable I/O

Air Inlet

Off Engine Air Cleaner - Mounting Brackets and Piping

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

Cooling

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

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)

Exhaust

Muffler and spark-arresting muffler with companion flanges

Flange, Elbow, and Flexible Fitting

Exhaust Expander

Fuel System

Fuel filter

Gas pressure regulator

Gas Knockdown Regulator

Gas shutoff valve 24V, Energized-To-Run (ETR)

Generator

Cable access box

Thermostate for space heater

Generator space heater (with optional heater control)

Manual voltage control

NEMA/IEC Busbars

Bearing temperature detectors

Generator air filter

Medium and high voltage generators and attachment

Current transformer, differential current transformer, potential transformer

Low voltage extension box

General

Tool set

US AID Emblem

Special paint order

Digital diagnostic tool

Package

Seismic Isolators

Spring 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