

PRODUCT SPECIFICATIONS FOR G3516C

GENERATOR SET SPECIFICATIONS

Maximum Continuous Rating	1660 ekW
Fuel Type	Natural Gas
Maximum Electrical Efficiency	37.70%
Maximum Standby Rating	1500
Frequency	50 / 60 Hz
RPM	1500/1800

ENGINE SPECIFICATIONS

Engine Model	G3516C
Displacement	4210 in ³
Aspiration	TA
Bore	6.7 in
Stroke	7.5 in

GENERATOR SET DIMENSIONS

Length	219 in
Width	72 in
Height	92 in
Dry Weight - Genset	31226 lb

G3516C STANDARD EQUIPMENT

AIR INLET

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

CONTROL PANELS

EMCP 4.3

COOLING

Jacket water and SCAC driven pumps and bypass lines

2nd Stage SCAC-Cat Flange

Engine driven water pumps for jacket water and aftercooler

Jacket water and SCAC thermostats

ANSI/DN customer flange connections for JW inlet and outlet

Cat flanges on SCAC circuit

EXHAUST

Integrated Sensing Module (ISM)

Cat-flanged face outlet on turbocharger

Provides exhaust port temperatures and stack temperature to customer supplied screen via CCM

Dry exhaust manifolds, insulated and shielded

FUEL SYSTEM

24V ETR Gas Shutoff Valve

Engine installed, fuel metering valve

Throttle plate, 24V DC actuator, controlled by ECM

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

Fuel Filter

IGNITION SYSTEM

Individual Cylinder Detonation Sensitive Timing (DST)

Electronic Ignition System (controlled by ECM)

FUEL SYSTEM

Electronic fuel metering valve

GENERATOR

Anti-condensation space heater

Busbar connections

Class H Insulation & Class F temperature rise

Reactive Droop

Permanent Magnet Excitation

3-phase brushless, salient pole

Caterpillar's Digital Voltage Regulator (CDVR) with 3-phase sensing and KVAR/PF control

SR4B

Winding temperature detectors

GENERAL

RH Service

Operation and maintenance manuals

Crankshaft Vibration Damper and Guard

Parts Book

STARTING/CHARGING

24V starting motors

G3516C OPTIONAL EQUIPMENT

AIR INLET

Vertical, horizontal dual element air cleaner

Enclosure mounting brackets and piping

Air cleaner with precleaner

CONTROL PANEL

Local NFPA99-110 Alarm Module w/LEDs

Synchronizing Module

Remote 24V 8/16 Light Annunciator

Engine Failure Relay

PL1000E/PL1000T Communications Module

Custom 8-Light Alarm Module

COOLING

Inlet/Outlet connections

Jacket water coolant heater

Aftercooler air lines, aftercooler core replacement

EXHAUST

Flexible Fittings

14" Flange Kit

406 mm Elbow Kits

406 mm flange kits

Mufflers (15/18/25 dBA Attenuation) and spark-arresting muffler with ANSI companion flanges

16" Spark Arresting Muffler

356-406mm Flange and Exhaust Expander

15/18/25 dBA Muffler Attenuation

FUEL SYSTEM

207-276kPa, 30-40 psi gas knockdown regulator

14-69 kPa (2-10 psi) gas pressure regulator

24VDC Gas Shutoff Valve, Gas Knockdown Regulator

Fuel Filter, Gas Filter

GENERATOR

Cable access box

8.7/15 kV Cross, Differential, Current Transformers (CCCT, DCT, CT)

Medium and high voltage generators and attachment

480/4160/13200 Volt Generator Options (60 Hz)

Generator air filter

Bearing temperature detectors

European Bus Bars

415/400/380, 3300/6600/11000 Volt Generator Options (50 Hz)

Annunciator Modules

Generator Removal

Generator Removal

Low voltage extension box

GOVERNING SYSTEM

Load share module

GENERAL

Special paint order

Tool set

US AID Emblem

Barring group

Digital diagnostic tool

STARTING/CHARGING

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

Battery removal

20A battery charger

Battery disconnect switch

Battery with cables and rack (shipped loose)