

# Product Specifications For G3516C



## Generator Set Specifications

Continuous Rating	1555 ekW
Fuel Type	CMM
Maximum Electrical Efficiency	37.70%
Maximum Standby Rating	1500
Frequency	50 / 60 Hz
RPM	1500/1800

## Engine Specifications

Engine Model	G3516C
Displacement	69 l
Aspiration	TA
Bore	170 mm
Stroke	190 mm

## Generator Set Dimensions

Length	5553 mm
Width	1828 mm
Height	2340 mm
Dry Weight - Genset	14161 kg

## 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/NM<sup>3</sup> 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  
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)