

# PRODUCT SPECIFICATIONS FOR G3516B

---

## GENERATOR SET SPECIFICATIONS

---

<b>Maximum Continuous Rating</b>	1300 ekW
<b>Fuel Type</b>	Natural Gas
<b>Maximum Electrical Efficiency</b>	35.70%
<b>Maximum Standby Rating</b>	1300 kW
<b>Frequency</b>	60 Hz
<b>RPM</b>	1800

---

## ENGINE SPECIFICATIONS

---

<b>Engine Model</b>	G3516B
<b>Displacement</b>	4210 in <sup>3</sup>
<b>Aspiration</b>	TA
<b>Bore</b>	6.7 in
<b>Stroke</b>	7.5 in

---

## GENERATOR SET DIMENSIONS

---

<b>Length</b>	165 in
<b>Width</b>	85 in
<b>Height</b>	95 in
<b>Dry Weight - Genset</b>	27823 lb

---

## G3516B STANDARD EQUIPMENT

AIR INLET

Single element canister type air cleaner with service indicator

Modular air cleaner, single element service indicator

#### CONTROL PANEL

EMCP 4.3

#### COOLING

CAT flange connections

Engine driven water pumps for jacket water and aftercooler

Jacket water and SCAC thermostats

#### CIRCUIT BREAKER

Left, Right, or Rear-Mounted

1600A-2000A, 3-Pole UL Rated Circuit Breakers

#### EXHAUST

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

Dry exhaust manifolds, insulated and shielded

CAT flanged faced outlets

#### FUEL SYSTEM

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

24V DC energized-to-run gas shutoff valve

Throttle plate, hydraulically actuated and controlled by GECM

#### FUEL SYSTEM

Electronic fuel metering valve

Gas shutoff valve

Electric air-fuel ratio control

#### IGNITION SYSTEM

Individual Cylinder Detonation Sensitive Timing (DST) 

Electronic Ignition System (controlled by GECM)

#### GENERATOR

Stator RTDs

Form wound stator

Permanent magnet excitation

IEC Platinum stator RTDs

Caterpillar's digital voltage regulator (CDVR) with droop capability, 3-phase sensing, KVAR/PF modes

Anti-condensation space heater

Winding temperature detectors

#### GOVERNING SYSTEM

HV Load share module

## G3516B OPTIONAL EQUIPMENT

#### AIR INLET

Air inlet adapters- rectangular or round

#### CIRCUIT BREAKER

3 Pole UL 489 Listed

3 Pole IEC 947-2 Rated

1200A, 1600A, 2000A, 2500A, 3200A circuit breaker with shunt trip and auxiliary contacts

#### CONTROL PANEL

Local alarm module

PL1000E/PL1000T communications module

Synchronizing module

Engine failure relay

Remote annunciator

Customer Interface Module

#### COOLING

Flexible connection for jacket water inlet and outlet

#### EXHAUST

203mm/305mm Elbow

Flexible Fitting (203mm)

Flange

15 dBA, 356mm (14 in) muffler attenuation

Exhaust Expander

#### FUEL SYSTEM

Fuel filter/ Gas filter

206-412 kPa (30-60psi) gas knockdown regulator

#### GENERATOR

Generator air filter

Low voltage extension box

2400V delta conversion

Medium and high voltage generators and attachment

Manual voltage control

Bearing temperature detectors

3-phase, 380/480/600/4160V @ 1800rpm generator (60 Hz)

European bus bar

Cable access box

#### GENERAL

Digital diagnostic tool

US AID Emblem

Tool set

Special paint order

#### STARTING/CHARGING

Charging alternator

10A/20A Battery charger

Jacket water coolant heater

Electric starting motor LH

24V Battery Set