

Product Specifications For G3516 With FAST RESPONSE



Generator Set Specifications

Gas Standby Rating	1500 ekW @ 0.8pf
Fuel Type	Natural Gas, Hydrogen Blend (up to 5%)
Emissions/Fuel Strategy	U.S. EPA Stationary Non-Emergency Certified
RPM	1800 rpm
Frequency	60 Hz
Compression Ratio	11.5

Engine Specifications

Engine Model	G3516
Displacement	78 l
Aspiration	TA
Bore	170 mm
Stroke	215 mm

Generator Set Dimensions

Length	7000 mm
Width	2345 mm
Height	3265 mm
Weight	18315 kg

G3516 With FAST RESPONSE Standard Equipment

Air Inlet

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

Control Panel

Cat ECS 100

Cooling

Jacket water and SCAC engine-driven pumps

Jacket water and SCAC thermostats

Exhaust

Dry exhaust manifolds, insulated and shielded

Individual exhaust port and turbocharger outlet wired to integrated temperature sensing module (ITSM) with GCEM providing alarms and shutdowns

Cat-flanged face outlet on turbocharger

Fuel System

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

Throttle plate, 24V DC actuator, controlled by GCEM

Gas pressure regulator

24V DC energized-to-run (ETR) gas shutoff valve

Engine-installed electronic control valve

General

Crankshaft vibration damper and guard

Paint- Caterpillar Yellow with high gloss black rails and radiator

RH Service

Operation and maintenance manuals

Parts book

Generator

Permanent Magnet Excitation

Anti-condensation space heater

Winding temperature detectors

NEMA Class H insulation

Integrated voltage regulator (IVR)

SR5

Starting/Charging

Electric Starter

24V starting motors

Jacket water heater

Battery with cables and rack (shipped loose)

Governing System

ADEM A4

Ignition System

Individual Cylinder Detonation Sensitive Timing (DST)

Electronic Ignition System (controlled by ADEM A4)

G3516 With FAST RESPONSE Optional Equipment

Air Inlet

Air cleaner with precleaner

Control Panel

Remote annunciator

Local alarm module

Remote PC monitoring

Engine failure relay

Local PC monitoring

EMCP 4.4

Circuit Breakers

S LSI, G LSIG, P LSIG-P, 4th Digit Type

100% rated, 3-pole (UL/CSA/IEC) 5th Digit Rating

3-pole (IEC 947-2 rated)

2000A, 2500A, 3000A 3 Pole, UL-100% Rated Masterpact Circuit Breakers

1600A, 2000A 3 Pole, UL-100% Rated R-Frame Circuit Breakers

Frame mounting

Cooling

Coolant level drain line with valves, fan with guard

Package mounted radiator

Exhaust

305 mm (12 in.) muffler

305 mm (12 in.) flange

305mm (12 in) spark arresting muffler

305 mm (12in.) elbow

18, 25 dBA Attenuation

Fuel System

3, 0-100 kPag, 4-20mA gas train pressure sensors

General

Digital diagnostic tool

Generator

European bus bars

Bearing temperature detectors

Low voltage extension box

Generator air filter

Cable access box

Starting/Charging

45A, 24V charging alternator (requires engine driven pumps)

20A, 24VDC battery charger

Grid Code Compliance

60 Hz: USA