

PRODUCT SPECIFICATIONS FOR G3516H

GENERATOR SET SPECIFICATIONS

Maximum Continuous Rating	2027 / 2007 ekW @ 1.0pf
Fuel Type	Natural Gas
Maximum Electrical Efficiency	45.30%
Frequency	50 / 60 Hz
RPM	1500 / 1800 rpm

ENGINE SPECIFICATIONS

Engine Model	G3516H
Displacement	4765 in ³
Aspiration	TA
Bore	6.7 in
Stroke	8.5 in
Compression Ratio	12.1
Fuel System	Natural Gas

GENERATOR SET DIMENSIONS

Length	291 in
Width	84 in
Height	95 in
Dry Weight - Genset	40384 lb

G3516H STANDARD EQUIPMENT

CONTROL PANELS

EMCP4.3

AIR INLET

Package Mounted Air Cleaner with service indicator

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

COOLING

Jacket water and SCAC driven thermostats

ANSI Class 150/DN custom flange connections for JW inlet and outlet

Engine driven water pumps for jacket water and after cooler

2nd stage SCAC-Cat Flange

EXHAUST

Center section cooled turbocharger with Cat flanged outlet

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

Dry exhaust manifolds, insulated and shielded

Cat-flanged face outlet on turbocharger

FUEL SYSTEM

Throttle plate, 24V DC actuator, controlled by GECM

Electronic fuel metering valve

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

IGNITION SYSTEM

Electronic Ignition System (controlled by ADEM A4)

Individual Cylinder Detonation Sensitive Timing (DST)

GENERATOR

Permanent Magnet Excitation

Anti-condensation space heater

Winding temperature detectors

SR5

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Reactive Droop

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

GENERAL

Crankshaft vibration damper and guard

Paint - Caterpillar Yellow except rails and radiators gloss black

RH Service

Parts book

Operation and maintenance manuals

GOVERNING SYSTEM

ADEM A4 4-20mA (0-5V) Speed Input

STARTING/CHARGING

24V starting motors

G3516H OPTIONAL EQUIPMENT

AIR INLET

Mounting brackets and piping

Air cleaner with precleaner

Heavy Duty air cleaner with precleaner

CIRCUIT BREAKERS

No UV trip or package mounted CB Wiring

Frame Mounting

MP-Frame 3 Pole Bottom Cable Entry or MP- Frame 6 Pole Bottom Cable Entry

4000A, 3-Pole IEC Rated

2500/3000/3200A or 4000/5000A Neutral Current Transformer Automatic Selection

Lower & Upper Covers, Extension Box Roof Cover

Busbar Mounting

4000A, 3-Pole UL Rated

CONTROL PANELS

Remote monitoring software

Discrete I/O Module, 12 Digital Inputs, 8 'Form C' Relay

Remote RS485, 32-light Annunciator

Cat Connect: Ethernet, Satellite, Cell Telematics

Cross-Current Compensation Current Transformer-- 8.7/15 kV Classes

RTD Module

Local/Remote PC Monitoring

16 Point/32 Light Annunciator with NFPA99-110/CSA282 Configuration

Remote Monitoring & Control

Synchronizing module

Local alarm module

COOLING

Jacket water coolant heater

Inlet/Outlet connections

EXHAUST

Flange

Muffler and spark-arresting muffler with ANSI companion flanges

Elbow

GENERATOR

Manual voltage control

Generator air filter

Low voltage extension box

Medium and high voltage generators and attachment

Cable access box

Bearing temperature detectors

STARTING/CHARGING

24V Battery Charger

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

GENERAL

US AID emblem

Special paint order

Battery disconnect switch

Digital diagnostic tool

Tool set

Battery with cables and rack (shipped loose)