Product Specifications For G3520H



Generator Set Specifications

Continuous Rating	2519 / 2500 ekW @ 1.0pf
Fuel Type	Natural Gas, Hydrogen Blend (up to 25%)
Maximum Electrical Efficiency	45.30%
Frequency	50 / 60 Hz
RPM	1500
Frequency	50/60 Hz

Engine Specifications

Engine Model	G3520H
Displacement	5956 in³
Aspiration	TA
Bore	6.7 in
Stroke	8.5 in
Compression Ratio	12.1

Generator Set Dimensions

Length	302 in
Width	86 in
Height	97 in
Dry Weight - Genset	54675 lb

G3520H Standard Equipment

Control Panel

EMCP 4.3

Air Inlet

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

Cooling

Engine driven water pumps for jacket water and aftercooler Jacket water and SCAC thermostats ANSI/DN customer flange connections for JW inlet and outlet

Circuit Breaker

LSI Long-Time, Short-Time, Instantaneous Annunciator Rear-mounted 5000A 3-Pole IEC Rated Circuit Breakers

Exhaust

Center section cooled turbocharger with Cat flanged outlet Dry exhaust manifolds, insulated and shielded Individual exhaust port and turbocharger outlet wired to Integrated Tmeperature Sensing Module (ITSM) with GECM providing alarms and shutdowns

Fuel System

Electronic fuel metering valve Throttle plate, 24V DC actuator, controlled by GECM

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

Ignition System

Electronic Ignition System (controlled by ADEM A4) Individual Cylinder Detonation Sensitive Timing (DST)

Generator

Caterpillar's Digital Voltage Regulator (CDVR) with 3-phase sensing and KVAR/PF control SR4B

Crankshaft Vibration Damper and Guard Busbar connections Paint- Caterpillar Yellow except rails gloss black Winding temperature detectors Operation and maintenance manuals Parts book Anti-condensation space heater RH Service SR5

Govrerning System

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

G3520H Optional Equipment

Air Inlet

Mounting Brackets and Piping Air cleaner with precleaner

Circuit Breaker

MP- Frame 6 Pole Bottom Cable Entry 4000/5000A Neutral Current Transformer Automatic Selection No UV trip or package mounted CB Wiring Frame Mounting

Control Panel

16 Point/32 Light Annunciator, Shipped Loose Remote Communications Module (PL1000T, PL1000E) Remote annuciator Local PC Monitorring Discrete I/O Module, 12 Digital Inputs, 8 'Form C' Relay Cat Connect: Ehternet, Satellite, Cell Telematics Engine failure relay Local alarm module Synchronizing module Remote PC Monitorring

Cooling

Inlet/Outlet connections Coolant level drain line with valves, fan with guard

Exhaust

Muffler and spark-arresting muffler with companion flanges Flange Elbow Flexible Fitting Exhaust Expander

Fuel System

Gas Knockdown Regulator Fuel filter Gas pressure regulator Gas shutoff valve 24V, ETR (Energized-To-Run)

Generator

Bearing temperature detectors Cable access box Low voltage extension box Manual voltage control European bus bar Generator air filter Medium and high voltage generators and attachment

General

Digital diagnostic tool Special paint order Tool set US AID Emblem

Starting/Charging

Battery with cables and rack (shipped loose) 24V starting motors Jacket water heater 60A, 24V charging alternator (requires engine driven pumps)

Grid Code Compliance

60 Hz: USA

50 Hz: Germany, Great Britain, Belgium, Romania, Italy, Ireland, Poland, Netherlands, Spain, France, and European Standard