

Product Specifications For G3512H



Generator Set Specifications

Continuous Rating	1515 ekW / 1505 ekW @1.0pf
Fuel Type	Natural Gas, Hydrogen Blend (up to 25%)
Maximum Electrical Efficiency	44.90%
Frequency	50 / 60 Hz
RPM	1500 rpm

Engine Specifications

Engine Model	G3512H
Displacement	59 l
Aspiration	TA
Bore	170 mm
Stroke	215 mm
Governor Type	ADEM A4

Generator Set Dimensions

Length	5656 mm
Width	1921 mm
Height	2308 mm
Dry Weight - Genset	14100 kg

G3512H Standard Equipment

Air Inlet

Package Mounted Air Cleaner with service indicator

Cooling

Jacket water and SCAC thermostats

2nd Stage CAT Flange

ANSI Class 150 JW Connection

Engine driven pumps for jacket water and aftercooler cooling

Control Panels

Dedicated customer wiring terminals

Control Panel

EMCP4.3

Exhaust

Dry exhaust manifolds insulated and shielded

Center section cooled turbocharger with Cat flanged outlet

Generator

High efficiency low voltage Cat generator, permanent magnet excitation, digital regulation, IP23 water ingress protection, & form wound construction.

Starting/Charging

Electric Starter

General

Paint - Caterpillar Yellow except rails and radiators gloss black

Crankshaft vibration damper and guard

G3512H Optional Equipment

Air Inlet

Mounting brackets and piping

Air cleaner with precleaner

Control Panels

Remote annunciator

Circuit Breakers

Frame mounting circuit breaker orientation

2500A 3-pole IEC rated circuit breakers

Rear Mounted Circuit Breaker

3000A/3200A/4000A UL100% Rated Masterpact circuit breaker (60 Hz only)

LSI Long-Time, LSI-P Long-Time, LSIG Long-Time, LSIG-P Long-Time,

Control Panel

Language Options

Cable Shroud Location

Engine failure relay

Discrete I/O module, 12 digital points, 8 'Form C' relay

16 point/32 light annunciator with NFPA99-110/CSA282 configuration

Empty Upper Box Right/Left

Local Alarm module

Synchronization module

Cat Connect: Ethernet, satellite, or cell telematics

Local/Remote PC Monitoring

Right/Left/Rear Extension Box

Cooling

Remote radiator for JW and SCAC circuits

220V (50Hz), 240V (60Hz), 480V (60Hz) JW heater

Exhaust

Flexible fitting [305mm x 305mm (12in. X 12in.)] w/ 12 bolt-flanges

406mm (16in.) sparking-arresting muffler with companion flange

Exhaust expander [250mm-329mm (10in-12in)]

305mm (12 in.) flange

Muffler options

Elbow exhaust

Fuel System

1/2" NPT gas train conduit connectors

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

Fuel Filter

Gas knockdown regulators

General

Digital Diagnostic tool

US Aid emblem

Generator

Generator air filter

Manual voltage control

Cable access box

RTD Monitoring

Bearing temperature detectors

Governing System

ADEM A4 4-20mA (0-5V) speed input

Starting/Charging

Battery with cables and rack

24V Starting motors

20A, 24VDC battery charger

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

Jacket water heater

Grid Code Compliance

60 Hz: USA

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