

# 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