

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