

PRODUCT SPECIFICATIONS FOR G3512E

GENERATOR SET SPECIFICATIONS

Maximum Continuous Rating	1200 ekW
Fuel Type	Natural Gas
Maximum Electrical Efficiency	42.30%
Maximum Standby Rating	-
Frequency	50 Hz
Speed	1500 rpm

ENGINE SPECIFICATIONS

Bore	6.7 in
Aspiration	TA
Engine Model	G3512E
Stroke	7.5 in
Displacement	3158 in³

GENERATOR SET DIMENSIONS

Length	181 in
Width	65 in
Height	89 in
Dry Weight - Genset	27475 lb

G3512E STANDARD EQUIPMENT

AIR INLET

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

CONTROL PANEL

EMCP 4.3

COOLING

Jacket water and SCAC engine-driven pumps

Jacket water and SCAC thermostats

EXHAUST

Dry exhaust manifolds, insulated and shielded

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

Cat-flanged face outlet on turbocharger

FUEL SYSTEM

Engine-installed electronic control valve

24V DC energized-to-run (ETR) gas shutoff valve

Gas pressure regulator

FUEL SYSTEM

Electronic fuel metering valve

Throttle plate, 24V DC actuator, controlled by GECM

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

GENERAL

Paint- Caterpillar Yellow except rails are gloss black

Parts book

Crankshaft vibration damper and guard

Operation and maintenance manuals

RH Service

GENERATOR

SR4B

Permanent Magnet Excitation

Caterpillar's Digital Voltage Regulator (CDVR) including reactive droop capability, 3 phase voltage sensing

Caterpillar's Digital Voltage Regulator (DVR) including reactive droop capability, 0-phase voltage sensing, KVAR/PF modes, RFI suppression, and a min/max exciter

Anti-condensation space heater

Winding temperature detectors

NEMA Class H insulation

GOVERNING SYSTEM

ADEM A4

IGNITION SYSTEM

Electronic Ignition System (controlled by GECM)

Individual Cylinder Detonation Sensitive Timing (DST)

STARTING/CHARGING

Electric Starter

G3512E OPTIONAL EQUIPMENT

AIR INLET

Mounting brackets and piping

Air cleaner with precleaner

CIRCUIT BREAKERS

Frame mounting

Right, left, rear mounted

3-pole (IEC 947-2 rated)

100% rated, 3-pole (UL/CSA/IEC) 5th Digit Rating

S LSI, G LSI, P LSI, 4th Digit Type

1200A, 3 Pole, UL-100% Rated P-Frame Circuit Breakers

1600A, 2000A 3 Pole, UL-100% Rated R-Frame Circuit Breakers

2000A 3 Pole, UL-100% Rated Masterpact Circuit Breakers

COOLING

Remote radiator for JW and SCAC circuits, level switch included but not wired

Coolant level drain line with valves, fan with guard

Inlet/Outlet connections

CONTROL PANEL

Local alarm module

Remote annunciator

Local PC monitoring

Remote PC monitoring

Engine failure relay

EXHAUST

305 mm (12 in.) Flange

250mm-329mm Flange Expander

Flexible fittings

FUEL SYSTEM

Remote mounted gas train, sized for 31.5 MJ/Nm³ (800 btu/cu ft) dry pipeline natural gas with inlet pressure range of 19.2 to 48.3 kPa (2.78 to 7 psi).

GENERAL

US AID emblem

Special paint order

Tool set

Digital diagnostic tool

GENERATOR

Cable access box

Bearing temperature detectors

Generator air filter

European bus bars

STARTING/CHARGING

24V starting motors

Battery with cables and rack (shipped loose)

Jacket water heater

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

20A, 24VDC battery charger