

PRODUCT SPECIFICATIONS FOR G3512 750 EKW

GENERATOR SET SPECIFICATIONS

Gas Standby Rating	750 ekW @ 0.8pf
Fuel Type	Natural Gas
Emissions/Fuel Strategy	U.S. EPA Certified for Non-Emergency Stationary Genset
RPM	1800 rpm
Frequency	60 Hz
Displacement	3173 in ³

ENGINE SPECIFICATIONS

Engine Model	G3512
Displacement	3173 in ³
Aspiration	TA
Bore	6.7 in
Stroke	7.5 in
Governor Type	ADEM A4

GENERATOR SET DIMENSIONS

Length	205.7 in
Width	90 in
Height	99.4 in
Weight	27500 lb

G3512 750 EKW STANDARD EQUIPMENT

AIR INLET

Dual air cleaners, 1 per side, with service indicator

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

CONTROL PANEL

EMCP 4.3

COOLING

Engine driven pumps for jacket water and separate circuit aftercooler

Jacket water and SCAC engine-driven pumps

Jacket water and SCAC thermostats

LH or RG connections when radiator is not selected

Package mounted radiator

FUEL

NOx sensor based air-fuel-ratio control

0.5 to 5 psi engine fuel inlet pressure

Pipeline Natural Gas: 800-1000 BTU/scf and 70-100 Methane Number

Gas Train: NFPA37 and CSA B149.3

EXHAUST

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

Dry exhaust manifolds, insulated and shielded

Cat-flanged face outlet on turbocharger

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

Throttle plate, 24V DC actuator, controlled by GECM

Engine-installed electronic control valve

Gas pressure regulator

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

GENERAL

Crankshaft vibration damper and guard

Operation and maintenance manuals

Parts book

Paint- Caterpillar Yellow except rails and radiators gloss black

RH Service

LUBRICATION

Gear type lube oil pump

Cartridge style oil filter

GENERATOR

Anti-condensation space heater

Winding temperature detectors

NEMA Class H insulation

SR5

Permanent Magnet Excitation

Caterpillar's Digital Voltage Regulator (CDVR) including reactive droop capability, 3-phase voltage sensing, KVAR/PF modes, RFI suppression, and a min/max exciter

GOVERNING SYSTEM

ADEM A4

IGNITION SYSTEM

Individual Cylinder Detonation Sensitive Timing (DST)

Electronic Ignition System (controlled by ADEM A4)

GOVERNING

ADEM A4 speed governor with 4 to 20ma (0V to 5V) speed input

STARTING/CHARGING

24V DC starting motors

Batteries with rack and cables

Electric Starter

G3512 750 EKW OPTIONAL EQUIPMENT

ADDITIONAL

AIR INLET

Mounting brackets and piping

Air cleaner with precleaner

CIRCUIT BREAKERS

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

Right, left, rear mounted

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

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

3-pole (IEC 947-2 rated)

Frame mounting

CONTROL PANEL

Remote annunciator

Local alarm module

Local PC monitoring

Engine failure relay

Remote PC monitoring

COOLING

Coolant level drain line with valves, fan with guard

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

Inlet/Outlet connections

EXHAUST

305 mm (12in.) elbow

18, 25 dBA Attenuation

Flexible fittings

305 mm (12 in.) muffler

305mm (12 in) spark arresting muffler

305 mm (12 in) flange

505 mm (12 in.) range

FUEL SYSTEM

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

GENERAL

Special paint order

US AID emblem

Tool set

Digital diagnostic tool

GENERATOR

Cable access box

Generator air filter

European bus bars

Low voltage extension box

Bearing temperature detectors

STARTING/CHARGING

20A, 24VDC battery charger

Battery with cables and rack (shipped ;ppse_

Jacket water heater

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