PRODUCT SPECIFICATIONS FOR G3520E

GENERATOR SET SPECIFICATIONS					
Maximum Continuous Rating	2022 ekW				
Fuel Type	Natural Gas				
Maximum Electrical Efficiency	41.50%				
Maximum Standby Rating	2022				
Frequency	50				
RPM	1500				
ENGINE SPECIFICATIONS					
Engine Model	G3520E				
Displacement	5248 in³				
Aspiration	TA				
Bore	6.7 in				
Stroke	7.5 in				
Fuel System	Natural Gas				
Compression Ratio	11.9				
GENERATOR SET DIMENSIONS					
Length	271 in				
Width	79 in				
Height	107 in				
Dry Weight - Genset	39306 lb				

G3520E STANDARD EQUIPMENT

CONTROL PANEL

EMCP 4.3

AIR INLET

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

COOLING

Standard CAT Flange

Right-Hand/Left-Hand Outlet Connections

Engine driven water pumps for jacket water and aftercooler

ANSI/DN adapter flange connections

EXHAUST

Individual exhaust port and turbocharger outlet wired to Integrated Sensing Module (ISM) with Gas ECM providing alarms and shutdowns

Dry exhaust manifolds, insulated and shielded

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

Fuel filter

Engine installed, fuel metering valve

24V ETR Gas Shutoff Valve

Throttle plate, 24V DC actuator, controlled by GECM

IGNITION SYSTEM

Individual Cylinder Detonation Sensitive Timing (DST)

Electronic Ignition System (controlled by GECM)

GENERATOR

SR4B

Caterpillar's Digital Voltage Regulator (CDVR) with 3-phase sensing and KVAR/PF control

Busbar connections

SR5

Winding temperature detectors

Permanent Magnet Excitiation

Anti-condensation space heater

3-phase brushless, salient pole

GENERAL

RH Service

Crankshaft vibration damper and guard

Paint - Caterpillar Yellow except rails and radiators gloss black

G3520E OPTIONAL EQUIPMENT

AIR INLET

Heavy duty air cleaner

Regular duty air cleaner

Air cleaner with precleaner

Mounting stand

CONTOL PANEL

Local NFPA99-110 Alarm Module w/LEDs

PL1000E/PL1000T Communications Module

Remote 24V-32V 8/16 Light Annunciator

Custom 8-Light Alarm Module

Engine Failure Relay

Synchronizing Module

CONTROL PANELS

Local alarm module

COOLING

Jacket water coolant heater

Cat Flange, ANS/DIN Adapter Flange

Engine Pumps

Aftercooler air lines, aftercooler core replacement

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EXHAUST

15/18/25 dBA Muffler Attenuation

305/356mm Flange/Exhaust Expanders, 305/406mm Flange and Exhaust Expander

356-406mm Flange and Exhaust Expander

Mufflers (15/18/25 dBA Attenuation) and spark-arresting muffler with ANSI companion flanges

305/360/406 mm Elbow Kits

Flexible Fittings

16" Spark Arresting Muffler

FUEL SYSTEM

Gas Train (31.5 MJ/Nm3 with inlet pressure 19.2 to 48.3 kPa (2.78 to 7 psi))

Gas Train 0-100 kPag, 4-20mA pressure sensors

Fuel Filter, Gas Filter

24VDC Gas Shutoff Valve, Gas Knockdown Regulator

GENERATOR

Annunciator modules

Air filters, cable access box

Bearing temperature detectors

Low voltage extension box

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

Extension box, European bus bars

Generator air filter

Medium and high voltage generators and attachment

415/400/380, 3300/6600/11000 Volt Generator Options (50 Hz)

480/4160/13200 Volt Generator Options (60 Hz)

8/15/23M harness

8.7/15 kV Cross, Differential, Current Transformers (CCCT, DCT, CT)

Cable access box

GOVERNING SYSTEM

Load share module

STARTING/CHARGING

Battery diconnect switch

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

24V Starting Motors

20A Battery Charger

Battery with cables and rack (shipped loose)