

PRODUCT SPECIFICATIONS FOR 3512C

ENGINE SPECIFICATIONS

Minimum Rating	1045 ekW
Maximum Rating	1045 ekW
Emissions	U.S. EPA Nonroad Tier 2
Displacement	3158 in³
Stroke	7.48 in
Voltage	600
Generator	SR4B
Fuel System	EUI
Weight	31864 lb
Oil Change Interval	500 h
Engine Control and Protection	ADEM A3
Bore	6.69 in
Aspiration	Turbocharged-Aftercooled
Generator Set Control	EMCP 4.3

DIMENSIONS

Width	91.2 in
Height	104.7 in
Length	238.2 in

CAPACITY FOR LIQUIDS

Lube Oil System - Refill	84 gal (US)
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3512C STANDARD EQUIPMENT

AIR INLET SYSTEM

Corrosion-resistant aftercooler core

Air Inlet shutoff

Regular duty air cleaner

CONTROL SYSTEM

ADEM A3 ECU, left-hand mounted

Direct rack control 0-200 mADC, space heater and jacket water heater connection and controls

COOLING SYSTEM

Caterpillar supplied radiator, 46/CVS-stacked 0.627 ratio, includes blower fan, fan drive, pulley, belt guard, coolant level sensor, regulator, and fuel cooler

Separate-circuit aftercooled

Outlet controlled jacket water thermostat

Jacket water pump - gear driven

Dual outlet

Aftercooler water pump - gear driven

Aftercooler water thermostat

EXHAUST SYSTEM

Dry exhaust manifold

Dual turbochargers, water cooled bearings

FLYWHEEL AND HOUSING

SAE No. 00 flywheel

SAE No. 00 flywheel housing

SAE standard rotation

FUEL SYSTEM

Fuel filter simplex (LH) with priming pump (LH)

Fuel transfer pump

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Fuel return line with flexible connection

Electronic unit injectors

GENERATOR ATTACHMENTS

Barrel-mounted petroleum terminal box with air filter and pressure differential switch

INSTRUMENTATION

Emergency stop button

Analog gauges:

Service port connector

Customer connection terminal blocks

EMCP 4.3 CONTROL PANEL

140 mm (5.5 in) Graphical Display

Communication

Controls

Generator Set Protection

Outputs

Inputs

Other Features

LUBRICATION SYSTEM

Crankcase breather

Oil cooler

Shallow oil pan

Oil drain extension, 2 in NPT female connection

Simplex oil filter

MOUNTING SYSTEM

4.19 m (165 in) length, 412 mm (16.2 in) height tubes, 1.18 m (50.5 in) wide

PROTECTION SYSTEM

Engine alarms, derate, and shutdown in abnormal operation

STARTING SYSTEM

TDI air starting motor, RH - 1034 kPa (150 psi)

GENERAL

Paint - Cat yellow

3512C OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Heavy duty air cleaner

Remote air inlet adapter - rectangular

Remote air inlet adapter - round

CONTROL SYSTEM

Engine control options:

Load sharing governor, 2301A

COOLING SYSTEM

Radiator options:

Coolant level sensor

Coolant conditioner

Cooling system connection options (for use with customer-supplied radiator):

Fan drive and belt guard (for use with remote and customersupplied radiators)

Fan pulley options (for use with customer-supplied radiator):

EXHAUST SYSTEM

Exhaust expander 297 mm to 340 mm (11.7 in to 13.4 in)

Flexible fitting, 356 mm (14 in)

Elbow, 305 mm (12 in)

Muffler, 356 mm (14 in), spark arresting, includes companion flanges, clean-out box, and spark box

Muffler, 305 mm (12 in), spark arresting, includes companion flanges, clean-out box, and spark box

FUEL SYSTEM

Custom fuel filter

Primary fuel filter

Primary fuel filter with water separator

GENERATOR ATTACHMENTS

Barrel-mounted petroleum terminal box

Current transformers (3)

Cable access box

INSTRUMENTATION

Communications module PL1000T

Communications module PL1000E

Thermocouples installed, one per cylinder

LUBRICATION SYSTEM

Custom oil filter

RH installed centrifugal oil filter

SAE15W40, Caterpillar DEO, 500 hour

Crankcase fumes disposal

Oil level regulator

MOUNTING SYSTEM

Custom inner base

Custom outer base

Package isolator supports (3), for mounting inner base to customer-supplied base

POWER TAKE-OFF

Alternator, 24V, 68A

PROTECTION SYSTEM

Explosion relief valves (3)

Metal particle detector switch

Metal particle detector with annunciator

STARTING SYSTEM

Custom starting motor

Air pressure regulator

GENERAL

LH installed engine barring group

Jacket water heater, LH recognized, 120-240V, single phase, 6 kW, LH and RH mounted

Jacket water heater, UL recognized, 120-240V, single phase, 6 kW, LH and RH mounted

Jacket water heater, UL recognized, 120-480V, single phase, 12 kW, LH and RH mounted

Jacket water heater lines