

PRODUCT SPECIFICATIONS FOR 3512B

ENGINE SPECIFICATIONS

Minimum Rating	1045 ekW
Maximum Rating	1245 ekW
Emissions	Non-certified
Oil Change Interval	500 h
Bore	6.69 in
Fuel System	EUI
Engine Control and Protection	ADEM A3
Generator	SR4B
Displacement	3158 in³
Stroke	7.48 in
Generator Set Control	EMCP 4.3
Weight	30864 lb
Voltage	600
Aspiration	Turbocharged-Aftercooled

DIMENSIONS

Height	104.7 in
Width	91.2 in
Length	238.2 in

CAPACITY FOR LIQUIDS

Cooling System - Engine	41 gal (US)
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3512B 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

3512B 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

1200 rpm model only:

1500 rpm model only:

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, 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