

Product Specifications For 3512C HD



Ratings

Power Range	1340-2366 bhp (1000-1765 kW)
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Engine

Speed Range	1600-1800 rpm
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Emissions	EPA Tier 3, IMO II
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Aspiration	TTA
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Bore	6.69 in
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Stroke	8.5 in
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Displacement	3574 in ³
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Rotation from Flywheel End	Counterclockwise
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Configuration	Vee 12, 4-Stroke-Cycle Diesel
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Dimensions & Weights

Width	80.2 in
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Height	87.5 in
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Dry Weight	16508 lb
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Length	104.2 in
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3512C HD Standard Equipment

Air Inlet System

Separate circuit aftercooler core, corrosion resistant coated (air side)
Powercore air cleaner

Control System

Dual Caterpillar A4 Electronic Engine Control with Electronic Unit Injector Fuel System
Rigid Wiring Harness (10 amp DC power required to drive Electronic Engine Control Module)

Exhaust System

3500C engines:

Fuel System

Fuel transfer pump
Electronically Controlled Unit Injectors

Lube System

Crankcase breather groups, Top mounted
Oil filler and dipstick, LH or RH
Oil pump, gear type
250 or 1000 hour sump oil pan

Power Takeoffs

Accessory drives: Lower RH, lower LH
Front housing, two-sided

Protection System

A4 Electronic Monitoring System provides customer programmable engine derating strategies to protect against adverse operating conditions
Emergency stop push button (located in Electronic Instrument Panel)
Safety shutoff protection:

General

Vibration damper and guard
Lifting eyes
NOTE: Engines for heat exchanger cooling do NOT include heat exchange

Flywheel And Flywheel Housing

Flywheel, SAE No. 00, 183 teeth
Flywheel housing, SAE No. 00

Cooling System

Oil cooler
Thermostats and housing, Full open temperature 92 C (198 F)
Jacket water pump, gear driven, centrifugal
Auxiliary fresh water pump
Aftercooler system: If using glycol, up to maximum 20% glycol concentration is allowed

Instrumentation

Electronic service meter, instrument panel (24V), start/stop switch, emergency stop button, maintenance due light, diagnostic light, warning light, maintenance clear switch, start motor magnetic switch, 15 and 3A breakers

Graphical Unit (Color Marine Power Display) for analog or digital of:

3512C HD Optional Equipment

Air Inlet System

Air Inlet Adapters

Charging System

Battery Chargers

Charging Alternator

Control System

Throttle Control

Cooling System

Coolant Shunt Tank

Cooling System Options

Exhaust System

Flexible Fittings

Elbows

Flanges

Flange and Exhaust Expanders

Mufflers

Fuel System

Fuel Cooler Heat Exchanger - Sea Water

Primary Fuel Filter

Fuel Level Switch

Rigid Fuel Lines

Flexible Fuel Lines

Instrumentation

Communication Modules

Color Marine Power Display System

Pilot House Instrument Panels

Marine Gear Sensors

Lube System

Sump Pumps
Lubricating Oil

Power Take-Offs

Stub Shafts
Crankshaft Pulleys
Damper Guard
Flexible Coupling and Guards

Marine Society Requirements

Green Passport Documentation
Spray Shielding

Protection System

Shutoff and Alarm Contactors

Special Appearance Packages

Special Appearance Packages with Chrome Covers
Yacht Class Finish

Starting System

Air Starting Motor Options
Battery Sets - 24 Volt - Dry
Battery Rack

Mounting System

Engine Supports
Vibration Isolation Mountings

Packing

Shrink Wrap Protection
Storage Preservation with Glycol Solution/Vapor Corrosion Inhibitor
Export Boxing
Export Packaging