

# PRODUCT SPECIFICATIONS FOR 3512C TIER 3

<b>Power Range</b>	1340-2366 bhp (1000-1765 bkW)
<b>Speed Range</b>	1600-1800 rpm
<b>Emissions</b>	EPA Tier 3, IMO II
<b>Aspiration</b>	TTA
<b>Bore</b>	6.69 in
<b>Stroke</b>	8.46 in
<b>Displacement</b>	3574 in <sup>3</sup>
<b>Rotation from Flywheel End</b>	Counterclockwise or Clockwise
<b>Configuration</b>	Vee 12, 4-Stroke-Cycle Diesel
<b>Minimum Dry Weight</b>	16508 lb
<b>Minimum Length</b>	104.2 in
<b>Maximum Length</b>	104.2 in
<b>Minimum Height</b>	87.5 in
<b>Maximum Height</b>	87.5 in
<b>Minimum Width</b>	80.2 in
<b>Maximum Width</b>	80.2 in

## **3512C TIER 3 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

### **MOUNTING SYSTEM**

3500C engines:

### **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 TIER 3 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 Control

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

## **PAINTS**

Paint Color Options

## **PACKING**

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



