

## S-SERIES

250PS [184kW] / 220PS [162kW] acc, to ISO 8665



Our Piezo controlled common rail injection system delivers 250PS and 50kg-m torque from the 3.0 liter V6 CRDi engine. The advanced design also makes it ultralight, quiet and fuel-efficient with extremely compact dimensions.

### Durability and Reliability

The use of Compacted Graphite Iron (CGI) for the cylinder block gives Hyundai SeasAll engines several advantages. The CGI block is lighter and quieter than conventional grey cast iron and demonstrates at least 85 percent higher tensile strength, 45 percent higher stiffness and approximately double the fatigue strength of iron and aluminum. It lasts longer than even we ever expected. This technology is a prime example of the innovation and improvement we bring to the marine engine industry. With Hyundai SeasAll, you are on the cutting edge.

### Technical Descriptions

#### Engine

- Compacted Graphite Iron (CGI) cylinder block
- Aluminum head
- Nine balance weight crankshaft
- Oil cooled pistons
- V6, 24-valve DOHC
- Hydraulic lash adjusters
- Integrated water jacket
- Low noise duplex timing chain
- Hydraulic timing chain tensioner
- Single serpentine belt system
- Drive belt auto tensioner

#### Engine Mounting

- Adjustable engine mounts

#### Lubrication System

- Easily exchangeable oil filter cartridge
- Electric oil extraction pump
- Seawater cooled oil cooler
- Chain drive engine oil pump

#### Fuel System

- Common rail direct injection (CRDi)-Piezo injectors
- Fuel filter with sensor detecting water in fuel
- Electric low pressure pump
- Dual pressure control valve
- Low and high pressure fuel pumps

#### Electrical System

- 12 volt system and 150A alternator
- Auxiliary engine stop button
- Glow plugs for a trouble-free cold start
- NMEA2000 Converter (Optional)
- 2 Pole system (Optional)
- Electronic control system (Optional)

#### Cooling System

- Seawater pump driven directly from the camshaft
- Seawater cooled intercooler, heat exchanger
- Auxiliary connector for cabin heating
- Corrosion resistant material for seawater circuit

#### Engine Operating Indicator (EOI)

- Engine self protection and diagnosis
- Displays CAN information
- Displays engine diagnostic error codes
- Audible alarm and control lamps

#### Air Inlet system

- Oil wetted and reusable air filter
- Intake silencer (Optional)

#### Exhaust System

- Engine coolant cooled exhaust manifold
- Seawater cooled exhaust elbow
- Seawater cooled Hi-Riser (Optional)

#### Turbocharger

- E-VGT, Electronic Variable Geometry Turbo

#### Noise Level

- 69.3dB (RCD Standard 75dB)

#### Emissions

- EPA Tier 2, IMO, BSO and RCD compliant

### Scope of Supply

#### 1. RATINGS

S3	LIGHT DUTY COMMERCIAL
S4	SPECIAL PLEASURE DUTY SPECIAL LIGHT DUTY COMMERCIAL
S5	PLEASURE DUTY

#### 2. GAUGES

KEY SWITCH ASSEMBLY, TACHOMETER, COOLANT TEMPERATURE, VOLTMETER and TRIM GAUGE FOR STERNDRIVE

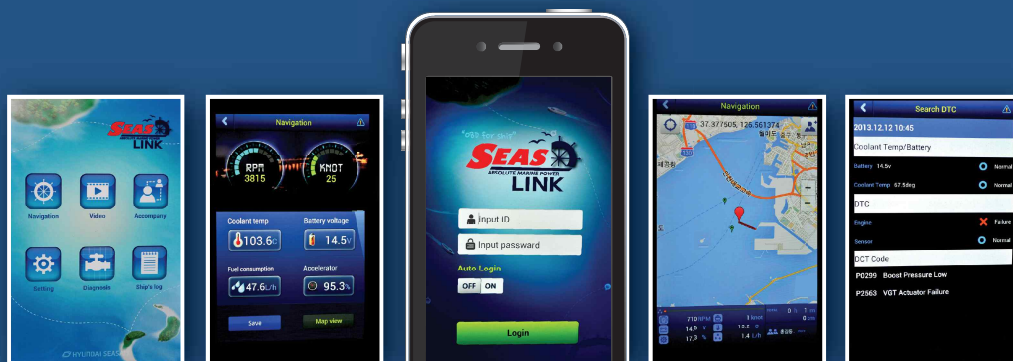
\* Factory-installed option,

\*\*\* Supply schedule may differ.

To find out more about configurations and accessories available, please contact your nearest Hyundai SeasAll network.

		RATINGS <sup>1</sup>	OPERATION MANUAL	EOI (Engine Operation Indicator)	SeasLink <sup>***</sup>	GAUGES <sup>2</sup>	COUPLER	ENGINE OIL EXTRACTION PUMP	SEA WATER PUMP *	BEARING STEERING PUMP *	EXHAUST HOUSING ASSEMBLY *	EXHAUST ELBOW (WATER COOLED)	EXHAUST PIPE (FOR STERNDRIVE)	TWO-POLE (INSULATED SYSTEM) *	INTAKE SILENCER	NMEA2000 CONVERTER	ELEC. CONTROL PANEL	MECH. CONTROL SYSTEM	STEERING WHEEL	SAFETY STOP SWITCH	MECH. CONTROL CABLE	HELM-90° BEZEL+CABLE	ALU PROP	SS PROP
S250S	\$5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S250S-BRAVO 1X, 2X, 3X	\$5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S250P	\$5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S250P-ZF63A	\$5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S250J	\$5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S250J-ZF63C, ZF45C	\$5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S220S	S3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S220P	S3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S220P-ZF63A	S3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● : Standard / ○ : Option / - : N/A / S = Sterndrive / P = Propeller Shaft / J = Water Jet



**SEAS LINK**  
ABSOLUTE MARINE POWER

ON THE SMARTER PHONE

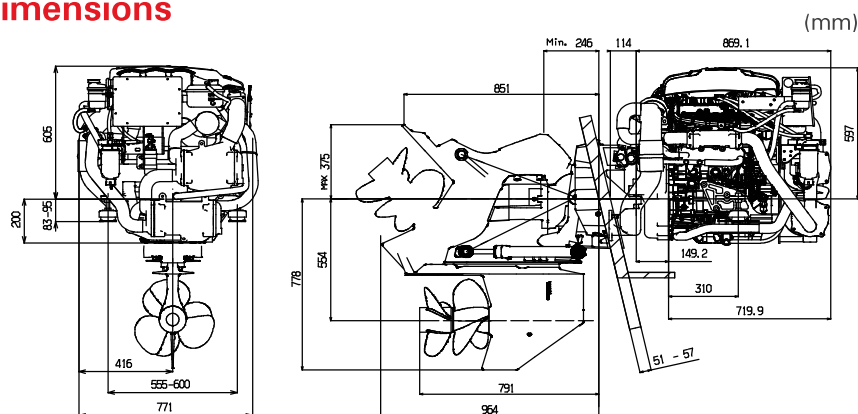
- Displays Engine Information
- Displays Boat Track on the Map
- Monthly User's Log Information
- Engine Diagnostic Functions
- Audible Warning Alarm and Visual Pop-up Screen

Navigation Video Accompany Setting Diagnosis User's Log

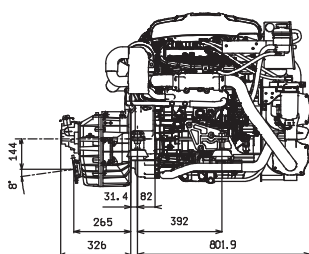
## Specifications

Engine type	S250S	S250P	S250J	S220S	S220P
Propulsion system	Stern drive	Shaft drive	Waterjet	Stern drive	Shaft drive
Engine Duty Rating	Pleasure Duty (S5), Special Pleasure Duty Special Light Duty Commercial (S4)			Light Duty Commercial (S3)	
Configuration	4-Stroke, 24-Valve DOHC, E-VGT with Intercooler, Fresh Water Cooling				
Output [PS (kW)]	250 (184)			220 (162)	
Rated rpm	3,800			3,200	
Cylinders	V6				
Displacement [cc]	2,959				
Bore X Stroke [mm]	84 X 89				
Max. Torque @ rpm	50 kg-m @ 2,500		48 kg-m @ 3,500	50 kg-m @ 2,500	
Injection System	Common Rail Direct injection (CRDi) - Piezo Injector				
Alternator	12V-150A				
Engine Diagnostics	YES				
Fuel Consump.[L/h]	51.0			42.3	
Dry Weight [kg]	334				
Flywheel	Hyundai Unique				
Flywheel Housing (P/J type)	Borgwarner Flange				

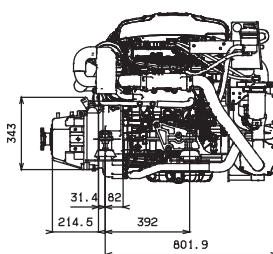
## Dimensions



S250S Bravo Three X Diesel

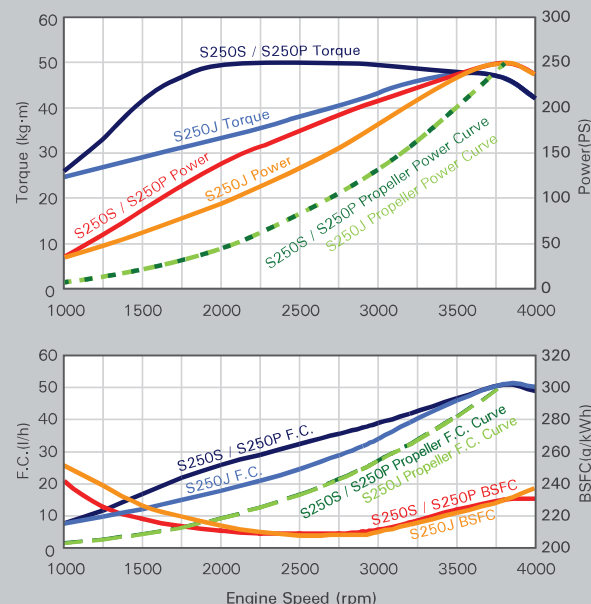


S250P I S220P ZF 63A



S250J ZF 63C

### S250S I S250P I S250J Performance Curves



### S220S I S220P Performance Curves

