VOLVO PENTA

VOLVO PENTA INBOARD DIESEL

D2-60

2.2 liter, in-line 4 cylinder



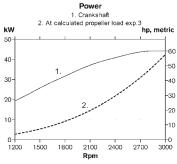


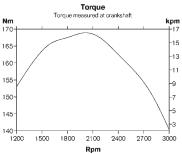
Technical Data

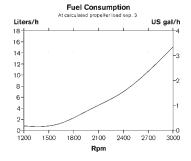
Engine designation	D2-60
Crankshaft power, kW (hp)	44 (60)
Propeller shaft power, kW (hp)	42 (58)
Engine speed, rpm	2700-3000
Displacement, I (in³)	2.2 (134.2)
Number of cylinders	4
Bore/stroke, mm (in.)	84/100 (3.31/3.94)
Compression ratio	23.3:1
Dry weight with reverse gear HS25A/MS25, kg (lb)	264/258 (582/569)
Dry weight with saildrive 150S, kg (lb)	264 (582)
Emission compliance	BSO, EU RCD Stage II, US EPA Tier 3
Rating	R5*

Technical data according to ISO 8665. With fuel having an LHV of 42700 kJ/kg and density of 840 g/liter at 15 °C (60 °F). Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.

*RATING 5. For pleasure craft applications, and can be used for high speed planing crafts in commercial applications







Technical description

Engine block and head

- Cylinder block and nead Cylinder block and cylinder head manu-factured from high grade cast iron. Crank-case features a rigid tunnel block design. Chrome molybdenum forged crankshaft,
- statically and dynamically balanced with integral counterweights. Pistons are cast from high silicon aluminum, are heat treated and fitted with two cast iron, chromium faced compression rings and a single oil ring. Replaceable, hardened valve seats Elastic coupling on flywheel

Engine mounting
• Tuned front and rear cushion-type rubber mounts. Adjustable.

Lubrication system

- ubrication system
 Spin-on fullflow oil filter
 Separate oil scavenger pipe
 Closed circuit crankcase ventilation
 One top and one side oil filling position

Fuel system

- Flange mounted, cam driven in-line injection pump
- Feed pump with hand primer Spin-on type fine fuel filter
- Auxiliary stop button on engine

Exhaust system
• Freshwater cooled exhaust manifold and seawater cooled exhaust elbow

Cooling system

- Freshwater cooling system governed by thermostat
- Tubular heat exchanger with integral ex-pansion tank Easily accessible sea water pump and
- impeller

Electrical system

- 12V corrosion-protected electrical sys-
- 115A marine alternator
- 24V alternator as option
- Charging regulator with electronic sensor for voltage drop compensation Glow plugs for excellent cold starting Electric starter motor (2.0 kW output)

- Electrical stop
 Extension cable harness with plug-in
 connection available in various lengths

EVC instruments

- Start/stop panel Tachometer with alarms and engine hour counter

Options:

- Separate instruments for:
- Fuel level Temperature

- Voltage
 LCD display with multisensor
- NMEA interface presenting engine data on chart plotters

Choice of transmissions
HS25A Hydraulic – drop center with 8°
down angled output shaft.
– Ratio 2,29:1/2,29:1 (RH/LH) and
2,71:1/2,71:1 (RH/LH).
MS25A Mechanical – drop center with 8°
down angled output shaft.
– Ratio 2,23:1/2,74:1 (RH/LH) and
2,74:1/2,74:1 (RH/LH).
MS25L Mechanical – drop center with
straight output shaft

The straight output shaft.

Ratio 2.27:1/2.10:1 (RH/LH) and 2.74:1/2.72:1 (RH/LH).

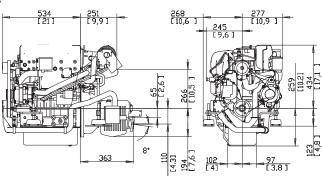
S-drive 150S. The S-drive can be mounted with reverse installation of the engine. Ratio 2.19:1. The drive is also available in an SR version.

Accessories

- Engine controls and steering systems
- Extra alternator kits Battery and battery switches
- Hot water systems
- Separate expansion tanks Cooling water seacocks, strainers and
- Exhaust systems and hull fittings
- Fuel systems including filters, pipes etc. Pulleys and universal brackets for power take-off (PTO)
- Propeller shaft systems and propellers Chemical products paints, oils, cleaners

Dimensions D2-60/150S/MS25A

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Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.

Contact your local Volvo Penta dealer for more information regarding Volvo Penta engines and optional equipment/ accessories or visit www.volvopenta.com



AB Volvo Penta

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