VOLVO PENTA

VOLVO PENTA INBOARD DIESEL

D6-440/480

5.5 liter, in-line 6 cylinder

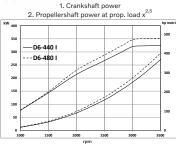


Technical Data

Product designation	D6-440 I	D6-480 I
Crankshaft power, kW (hp)	324 (440)	353 (480)
Propeller shaft power, kW (hp)	311 (423)	339 (461)
Engine speed, rpm	3700	3700
Engine displacement, I (in³)	5.50 (335.6)	5.50 (335.6)
Engine configuration	in-line 6	in-line 6
Aspiration	turbo, after cooler, compressor	
Rating	R5*	R5*
Dry weight with HS85IV, kg (lb)	755 (1664)	755 (1664)
Dry weight with HS85A, kg (lb)	725 (1598)	725 (1598)
Ratio HS85IV	2.008 - 2.493	2.008 - 2.493
Ratio HS85A	1.962 - 2.500	1.962 - 2.500
Voltage	12V or 24V	12V or 24V
Emission compliance	IMO NOx, EU RCD Stage II, US EPA Tier 3	
Flywheel / flywheel housing	SAE10 / SAE4	SAE10 / SAE4

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.

*R5. For pleasure craft applications, and can be used for high speed planing crafts in commercial applications.



Torque

Torque measured at crankshaft

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Fuel consumption
At calculated propeller load exp. 2.5

D6-440/480

5.5 liter, in-line 6 cylinder

Technical description

Engine block and head

- · Cylinder block and cylinder head made of
- · Ladder frame fitted to engine block
- · 4-valve technology with hydraulic lash adiusters
- · Double overhead camshafts
- · Oil-cooled pistons with two compression rings and one oil scraper ring
- Integrated cylinder liners Seven bearing crankshaft
- · Rear end transmission

Engine mounting

· Flexible engine mounting

Lubrication system

- · Replaceable separate full-flow and by-pass oil filter
- · Seawater cooled tubular oil cooler
- · Oil level and oil temperature sensors
- · Crankcase oil separator, maintenance

Fuel system

- · Common rail fuel injection system, 2000 bar
- · Electronically controlled central processing system (EMS - Engine Management Sys-
- · Fuel pressure sensor that indicates clogging in fuel filters

· Single fine fuel filter of spin-on type, with water separator and water in fuel alarm

Air inlet and exhaust system

- Belt-driven compressor with silencer
- Air filter with replaceable insert
- Crankcase gases vented into the air inlet
- Exhaust elbow or exhaust riser
- Turbocharger, freshwater cooled
- Loss of sea water alarm

Cooling system

- Thermostatically regulated freshwater cool-
- Seawater cooled tubular heat exchanger
- · Coolant system prepared for hot water outlet
- Seawater impeller pump
- Engine mounted seawater strainer

Electrical system

- Marine alternator (12V/150A or 24V/80A) prepared for Pulse Width Modulation (PWM)
- Automatic fuses for engine, transmission and EVC
- Auxiliary stop switch in front of engine
- Engine available as 12V or 24V
- Power connections and fuses co-located in one connection box on engine

Electronic Vessel Control (EVC)

- Fully integrates the engines, electronics and EVC features with Glass Cockpit
- Electronic shift and throttle as standard
- Electronic steering as option in twin installations
- Plug-in connectors
- Low speed control as standard
- Joystick option for twin installation
- Autopilot with Joystick Driving as option
- Support for Easy Connect app
- Maintenance Assistant with service alert

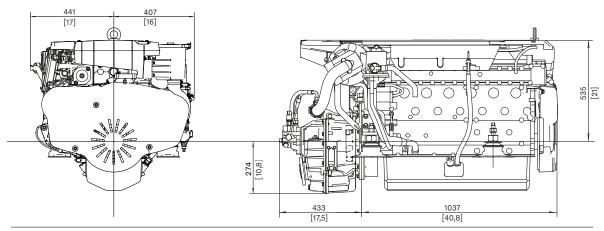
Gear box

- Gear box with matched drop center and 8° down angle for compact installation and minimum propeller shaft angle. V-drive available.
- Bevel gears which results in smooth running at all speeds
- Hydraulically operated clutch for smooth shifting
- Electronic shifting performed by electromagnetic valves
- When under sail propeller shaft can rotate 24 hours without engine start
- Seawater cooled oilcooler
- · Low speed as option

Option

U.S.C.G./MED (SOLAS)

Dimensions D6-440, D6-480 / HS85A



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 engine

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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