VOLVO PENTA INBOARD PERFORMANCE SYSTEM

IPS 350/400/450/500/600



General Data

Driveshaft

System designation	IPS350	IPS400	IPS450	IPS500	IPS600
Engine displacement, I (in ³)	3.7 (224)	3.7 (224)	5.5 (336)	5.5 (336)	5.5 (336)
Configuration	in-line 4	in-line 4	in-line 6	in-line 6	in-line 6
Crankshaft power, kW (hp) @ 3500 rpm	191 (260)	221 (300)	243 (330)	272 (370)	320 (435)
Propshaft power, kW (hp) @ 3500 rpm	182 (248)	212 (289)	230 (314)	259 (352)	307 (418)
Aspiration	Turbo, aftercooler, compressor		Turbo, aftercooler,	Turbo, aftercooler, compressor	
Rating	R5**	R5**	R4* & R5**	R5**	R5**
Package weight, kg (lb)	780 (1720)	780 (1720)	863 (1903)	887 (1955)	901 (1986)
Propeller series	T2-T10, TS3-TS6	T2-T10, TS3-TS6	T2-T10, TS3-TS6	T2-T10, TS3-TS6	T2-T10, TS3-TS6
Voltage	12 V	12 V	12V or 24V	12V or 24V	12V or 24V
Emission compliance	IMO NOx, EU RCD, US EPA Tier 3				
Application	Twin/multiple engine installation in planing hulls				
Speed range	20 to 45 knots				

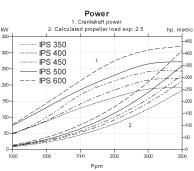
Compact (standard), jackshaft as option

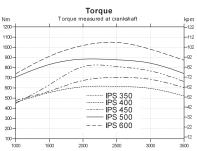
Technical data according to ISO 8665. With fuel having an LHV of 42700 kJ/kg and density of 840 g/liter at $15 \,^{\circ}$ C (60 $^{\circ}$ F).

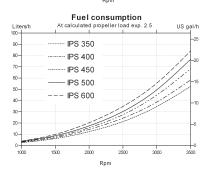
Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.

*RATING 4. For light planing craft in commercial operation

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









IPS 350/400/450/500/600

Engine technical description:

Engine block and head

- Cylinder block and cylinder head made of cast-iron
- Ladder frame fitted to engine block
- 4-valve technology with hydraulic lash adjusters
- Double overhead camshafts
- Integrated cylinder liners
 Seven-bearing crankshaft (five-bearing on the 350 and 400)

Engine mounting

Flexible engine mounting

Lubrication system

- Easily replaceable separate full-flow and bypass oil filter
- Seawater-cooled tubular oil cooler

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- Fuel system
- Common rail fuel injection systemControl unit for processing the injection
- Fine filter with water separator

Air inlet and exhaust system

- Belt-driven compressor with silencer (no compressor on the 450)
- Air filter with replaceable insert
- Crankcase gases vented into the air inlet
- Exhaust elbow or exhaust riser
- Turbocharger, freshwater-cooledLoss of sea water alarm

Cooling system

- Thermostatically regulated freshwater cooling
- Tubular heat exchanger with separate large volume expansion tank
- · Connections for hot water outlet
- Seawater strainer and easily accessible impeller pump

Electrical system

 115A marine alternator with Zener-diodes to protect the system from peak voltage, and integrated charging regulator with battery sensor cable for maximum use of alternator

- Engine reset fuses
- · Auxiliary stop button

Instruments/control

- Complete instrumentation/display packages, including e-key, the electronic key from Volvo Penta.
- EVC monitoring panels
- Electronic remote control for throttle, shift and steering
- Plug-in connectors





Lern more about Volvo Penta IPS and the unique functions the IPS system can be extended with.

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





Download the Volvo Penta dealer locator App for your IPhone or Android



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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.