

## Weichai WP12 series marine diesel engine (295-405kW)

Parameters Table

<b>Type</b>	Four-stroke, water cooled, in-line, turbocharged and intercooled	<b>Number of cylinders</b>	6
<b>Cylinder Bore/stroke</b>	126×155(mm)	<b>Displacement</b>	11.596L
<b>Oil consumption rate</b>	≤0.5g/kW·h	<b>Noise</b>	≤100dB (A)
<b>Minimum fuel consumption rate</b>	191g/kW·h	<b>Idle speed</b>	600±50r/min
<b>Torque reserve</b>	25-35%	<b>Rotation direction of crankshaft (facing the flywheel end)</b>	Counter-clockwise
<b>Dimensions Length × Width × Height/net weight</b>	Mechanical pump 1695×858×1385 (mm) 1200kg Electronical-controlled pump and rear turbocharger 1683×928×1264 (mm) 1200kg		

Model Portfolio Table

<b>Series</b>	<b>Model</b>	<b>Air intake mode</b>	<b>Rated power kW/Ps</b>	<b>Speed r/min</b>	<b>Fuel feeding mode</b>	<b>Emission level</b>	<b>Power classification</b>
WP12	WP12C400-18	Turbocharged and intercooled	295/400	1800	Mechanical pump	IMOII	P1
	WP12C450-21	Turbocharged and intercooled	330/450	2100	Mechanical pump	IMOII	P1
	WP12C500-21	Turbocharged and intercooled	368/500	2100	HPCR	IMOII	P2
	WP12C550E212	Turbocharged and intercooled	405/550	2100	HPCR	IMOII	P3

Remark: Product parameters and model portfolio are for reference only. Please contact relevant personnel for official information on delivery time and fishing boat model portfolio.

### Product description

Safe and reliable

- The high-strength design of structural parts such as engine block, piston and bearing bush ensures the reliability of diesel engine under high explosion pressure
- For turbocharger, starter, high-pressure oil pump and other important parts, global excellent suppliers are used
- Withstand the most stringent durability test and assessment; ensure the reliability of key parts and components; and the overhaul period of the whole engine is over 20000h
- Perfect self-diagnosis system, perfect failure protection mode, and safe control strategy

#### Strong power

- Accurate control by electronic control units, high injection pressure, small fluctuation of rotating speed, and strong power
- Low-speed and high-torque design with the torque reserve of 25%-35%, quick response, and fast speed increase

#### Economical and fuel-efficient

- The fuel injection law is optimized, the fuel injection pressure, fuel injection quantity and fuel injection time are accurately controlled, the fuel is fully atomized, and the minimum fuel consumption rate is 191g/kW•h

#### Comfortable and environmentally friendly

- It can realize multiple injections such as pre-injection and post-injection, and the noise and vibration are reduced by 20% compared with the mechanical pump system
- Water jacket exhaust pipe and water jacket exhaust tail pipe are used to reduce engine compartment temperature
- IMOII ship emission standards are met

#### Strong practicability

- LCD Internet instruments, vibration isolators, and hand-pressed oil well pumps can be equipped to meet the requirements of different customers
- Horizontal air filter and rear turbocharger reduce the height of the whole engine and facilitate the layout of the engine compartment
- Different control strategies are adjusted according to different performance requirements
- Receive/output various control signals, which meet the requirements of automation control