WEICHAI pursues an active policy of product development and improvement.For this reason the company reserves the right to change specifications without prior notice.

Contact your local dealer for more information regarding WEICHAI engine and

Scan QR Code for Brochure

optional equipment/accessories



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Power Your Success

Technical Data

| Engine model | 8WH25LC2500-7.5 | 8WH25LC2720-7.5 | 8WH25LC3000-9 | 8WH25LC3300-9 | 8WH25LC3265-1 | 8WH25LC3645-1 |
|------------------------------------|---|-----------------|---------------|---------------|---------------|---------------|
| Rated power, Ps(kW) | 2500(1838) | 2720(2000) | 3000(2207) | 3300(2427) | 3265(2400) | 3645(2680) |
| Rated speed, r/min | 750 | 750 | 900 | 900 | 1000 | 1000 |
| Power rating | P1 | | | | | |
| Min. fuel consumption, g/(kW·h) | 185 | | | | | |
| No. of cylinders | In-line 8 | | | | | |
| Description | 4-stroke, direct-injected, turbocharged diesel engine with air cooler | | | | | |
| Bore x Stroke, mm (in) | 250 x 330 (9.8 x 13) | | | | | |
| Displacement, L (in ³) | 97.2(5931.1) | | | | | |
| Compression ratio | 15.7:1 | | | | | |
| Dry weight, kg (lb) | 16800(37037.7) | | | | | |
| Emission | IMO Tier II | | | | | |
| Firing order | 1-3-7-4-8-6-2-5 | | | | | |
| Idle speed, r/min | 300 | 300 | 360 | 360 | 400 | 400 |
| Flywheel size, mm | Ф870 | | | | | |
| Other engine models | 8WH20LC2200-6 | | | | | |

Class Definition

| P | ower Classification | Typical Conditions of Usage | Typical applications |
|----|-----------------------|--|---|
| P1 | Continuous Duty | Typical annual usage is recommended but not limited to 5000h~8000h; Full power can be used without interrupt; Average load: 70%~100% of rated power; The operating state in common use:Uninterrupted continuous full load use. | Ocean vessel, Engineering vehicle |
| P2 | Heavy Duty | Typical annual usage is recommended but not limited to 5000h; Full power could be utilized max 8h per 12h; Average load: 40%~80% of rated power; The operating state in common use: Continuous variable load, common use operating state is high load in high speed and middle speed. | Ferries, High speed, Passengers boats, Trawlers, Inland waterway transport boats, Tugboat, Offshore trade vessel, Purse seine vessel |
| P3 | Intermittent Duty | Typical annual usage is recommended but not limited to 3000h; Full power could be utilized max 4h per 12h; Average load: 40%~80% of rated power; The operating state in common use:high load in high speed and variable load in low speed. | Offshore service boats, Seasonal cruise ship, Official vessels with high utilization rate |
| P4 | Light Duty | Typical annual usage is recommended but not limited to 1000h; Full power could be utilized max 2h per 8h; Average load: 60% of rated power; The operating state in common use:high load in high speed and low load in low speed,Have higher requirement to acceleration. | Fishery patrol ship, Maritime surveillance ship, Patrol boat, Life boat, Stormships used by local governments |
| P5 | High Performance Duty | Typical annual usage is recommended but not limited to 500h; Full power could be utilized max 0.5h per 5h; Average load: 60% of rated power; The operating state in common use:high load in high speed, Have higher requirement to acceleration. | Leisure yachts |
| | | | |

Power Definition

Standard ISO 3046-1

Reference conditions Ambient temperature 25 °C / 77 °F Barometric pressure 100 kPa Relative humidity 30% Raw water temperature 25 °C / 77 °F

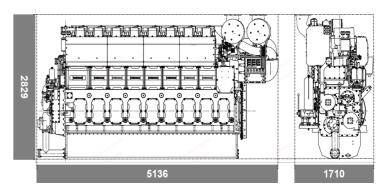
Fuel oil

Relative density 0,840 ± 0,005g/ml Lower calorific power 42,700 kJ/kg Consumption tolerance 0 ± 5% Inlet limit temperature 35 °C / 95 °F

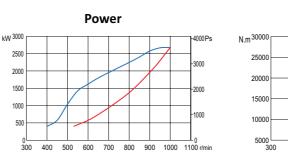
Our ratings also comply with classification societies maximum temperature definition without power derating.

Ambient temperature 45 °C / 113 °F Raw water temperature 32 °C / 90 °F

Engine Dimensions



\ Performance Curves(8WH25LC3645-1)



Full load speed characteristics

500

Technical Description

Engine and block

| Cylinder block made of Vermicular graphite cast iron | |
|--|-----|
| 4 valves per cylinder | |
| Steel crankshaft | _ |
| Wet cylinder liner | Fu |
| Three-section connecting rod for easy maintenanc | Fu |
| Starting system | Oil |
| Air motor start | |
| Lubrication system | |
| Switchable oil filter | |
| Centrifugal oil filter (option) | |
| Lube oil automatic filter (option) | |
| Fuel system | |
| Unit fuel injection pump | |
| Anti-explosion high pressure fuel pipe and leak-off fuel | Tu |
| monitoring | |
| Switchable fuel fine filter | Int |
| Air inlet and exhaust system | |
| Turbocharged and intercooled air intake system | Air |
| High pressure ratio turbocharger | |
| Each cylinder is equipped with a thermocouple | Ex |
| Ductile iron exhaust pipe | |
| Cooling system | |
| Gear driven fresh water pump installed on engine | |
| Gear driven sea water pump installed on engine | |
| | |

Reliable Durable Powerful

Dimensions may vary based on selected engine configuration

