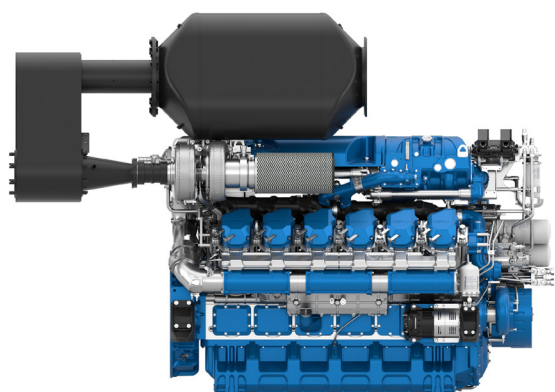




12M26.3 +SCR

Propulsion Diesel Engine



| | |
|------------------------|-------------------|
| Number of cylinders | 12V @ 90 |
| Bore and stroke (mm) | 150 X 150 |
| Total displacement (L) | 31.8 |
| Compression ratio | 15/1 |
| Engine rotation | counter clockwise |
| Idle speed | 650 |
| Flywheel | SAE 0 |
| Flywheel housing | SAE 18" |

Customer benefits

Most advanced Common Rail technology and high-end injection system (2200 bar), key to achieve strict emissions regulations and competitive performances.

Highly efficient turbochargers optimized to operate with high performance keeping fuel consumption under control.

Individual cylinder heads allowing easy maintenance.

Key components made of highly reliable materials.

Rated power - Fuel consumption

| Duty | kW | HP | RPM | Fuel consumption | | | IMO | EPA | CCNR | CE97/68 |
|------|------|------|------|------------------|-------------|-----|--------|-----|------|---------|
| | | | | Optimum value | Rated power | | | | | |
| | | | | g/kWh | g/kWh | l/h | | | | |
| P1 | 883 | 1200 | 1800 | 200 | 202 | 209 | II/III | 3/4 | II | III A |
| P2 | 1030 | 1400 | 2100 | 201 | 210 | 254 | II/III | 3/4 | II | III A |
| P2 | 1103 | 1500 | 2200 | 200 | 210 | 275 | II/III | 3/4 | II | |
| P3 | 1214 | 1650 | 2300 | 201 | 209 | 311 | II/III | 3/4 | - | - |

| | P1 | P2 | P3 |
|----------------------------|-------------------------|--------------|---------------|
| Application | Unrestricted Continuous | Continuous | Intermittent |
| Engine load variations | Very Little To None | Continuous | Important |
| Average Engine load factor | 80-100% | 30-80% | 50% |
| Annual working time | More Than 5000 H | 3000 -5000 H | 1000 - 3000 H |
| Time at full load | Unlimited | 8h Each 12h | 2h Each 12h |

P1 Continuous Duty

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

P2 Heavy Duty

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

P3 Intermittent Duty

- Seasonal passenger vessels
- Fishing boats
- Pilot boats
- Commercial pleasure boats
- Pump boats
- Displacement sailboats
- Trawlers
- Bow thrusters

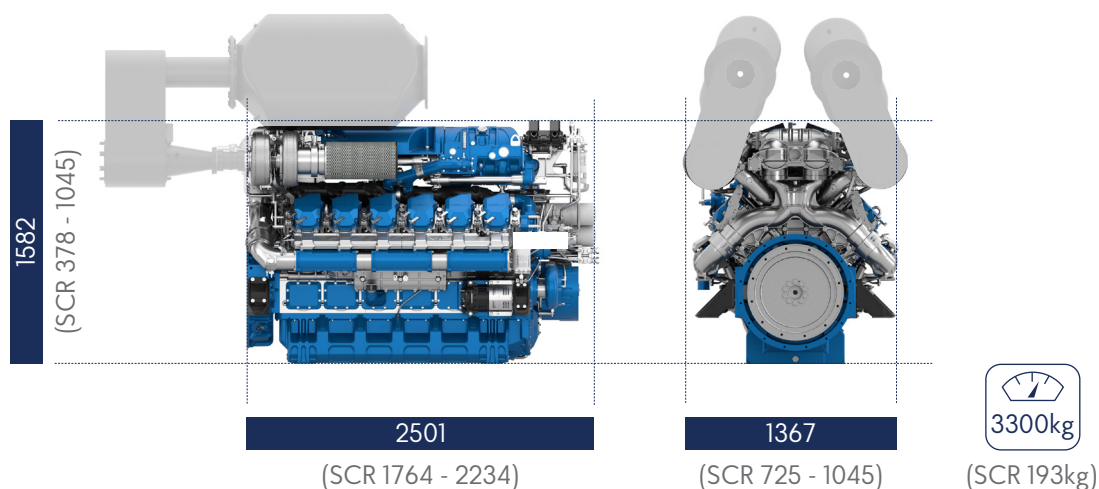
P4 Light Duty

- Private pleasure boats
- Multi-hull pleasure boats
- Survey or rescue fast vessels
- Military fast vessels.

P5 High performance Duty

- Private pleasure boats
- Multi-hull pleasure boats

Dimensions and dry weight (mm/kg)



Standard equipment

Cooling System

Two - stage cooling circuit with built - in HT thermostatic valve
Integrated fresh water expansion tank
High efficiency tubular heat exchanger
Gear driven centrifugal raw water pump
Self priming raw water pump with bronze impeller

Lubrication System

Full flow lube oil filters duplex type
Fresh water cooled lube oil heat exchanger

Fuel System

Common-rail electronic injection
High pressure pump with shielded high pressure injection rail and pipes
Fuel oil filter duplex type
External fuel pre-filter with water separator

Intake Air and Exhaust System

Double flow raw water cooled intake air heat exchanger module
High efficiency dry turbocharger with ball bearing technology
Two Stage Turbocharging system

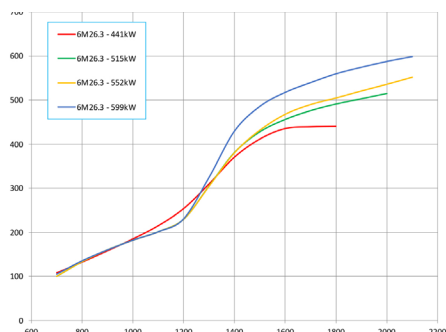
Electrical System

Voltage: 24V DC insulated
Electrical starter
190A battery alternator

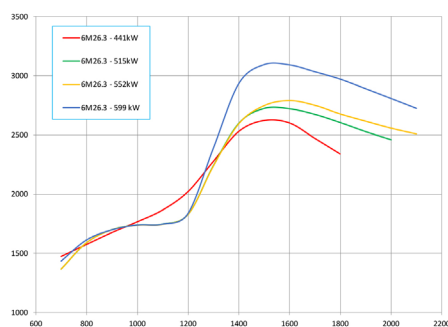
Optional Equipment

Wet exhaust
PTO elastic coupling
Additional pulley
Electric drain system
Standard PTO for hydraulic pump
Different alternators possible - including 12V
Electrical rotary actuator

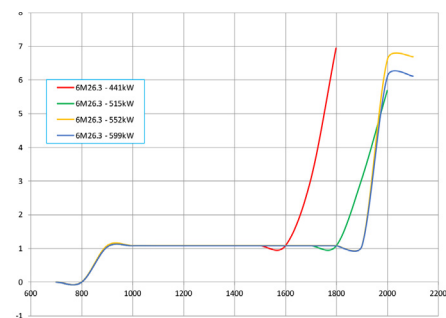
Power Curves



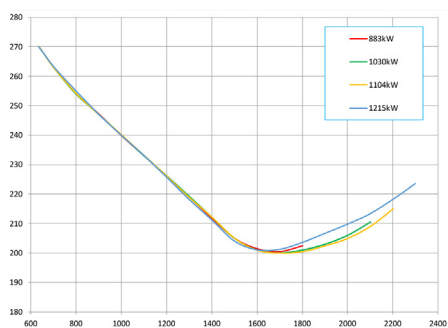
Torque Curves



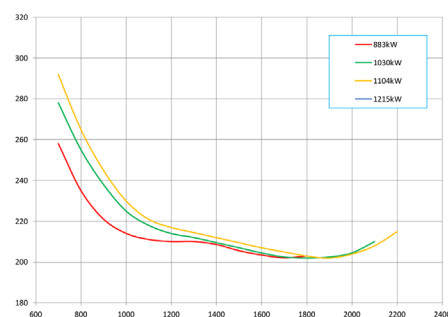
Cons. Urea - Full Curve



Full Load



Prop Curves



Power definition

(Standard ISO 3046/1 - 1995 (F))

Reference conditions

| | |
|-----------------------|-------------|
| Ambient temperature | 25°C / 77°F |
| Barometric pressure | 100 kPa |
| Relative humidity | 30%R |
| Raw water temperature | 25°C / 77°F |

Fuel oil

| | |
|-------------------------|------------------|
| Relative density | 0,840 ± 0,005 |
| Lower calorific power | 42 700 kJ/kg |
| Consumption tolerances | + 5% |
| | (DIN ISO 3046-1) |
| 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 |