

Powercity®

Marine Power Train System

Efficient • Reliable • intelligent



PPS-30R

PPS30R202609

Marine Engine



RAYWIN 3M1800/N marine diesel engine, 3-cylinder in-line, four-stroke direct injection design. Rated prime power reaches 25kW @3000rpm, The 3M18 series engine power category $21\text{kW} \leq P \leq 25\text{kW}$.

Equipped with Inline Pump fuel system, it delivers low fuel consumption, featuring high reliability and low operating cost. Compact and lightweight structure meets CE standards with long maintenance intervals. Same-side service layout simplifies maintenance.

Available options: dual belts, belt guards, 24V voltage system, exhaust-water mixer. Safe, robust and fuel-efficient, it serves as main propulsion power for fishing boats, cargo boats, yachts, traffic boats and working boats.



Product Features

- It adopts mature design concept and reliable performance, available with CCS certification upon request.
- Engine power covers 21~25kW, rated power 25kW at 3000rpm.
- Fuel filter and oil filter are arranged on the same side for easy disassembly and maintenance.
- Tunnel-type cylinder block and independent bearing supports reduce vibration and improve structural strength for longer service life and higher reliability.
- Multiple optional configurations are available to meet diverse application requirements.
- Rich optional parts: 24V starting system, two cooling types, belt shield, double V-belts, vibration damper, integrated water-cooled exhaust pipe.

 **RAYWIN**

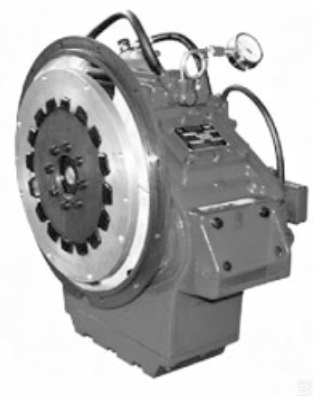


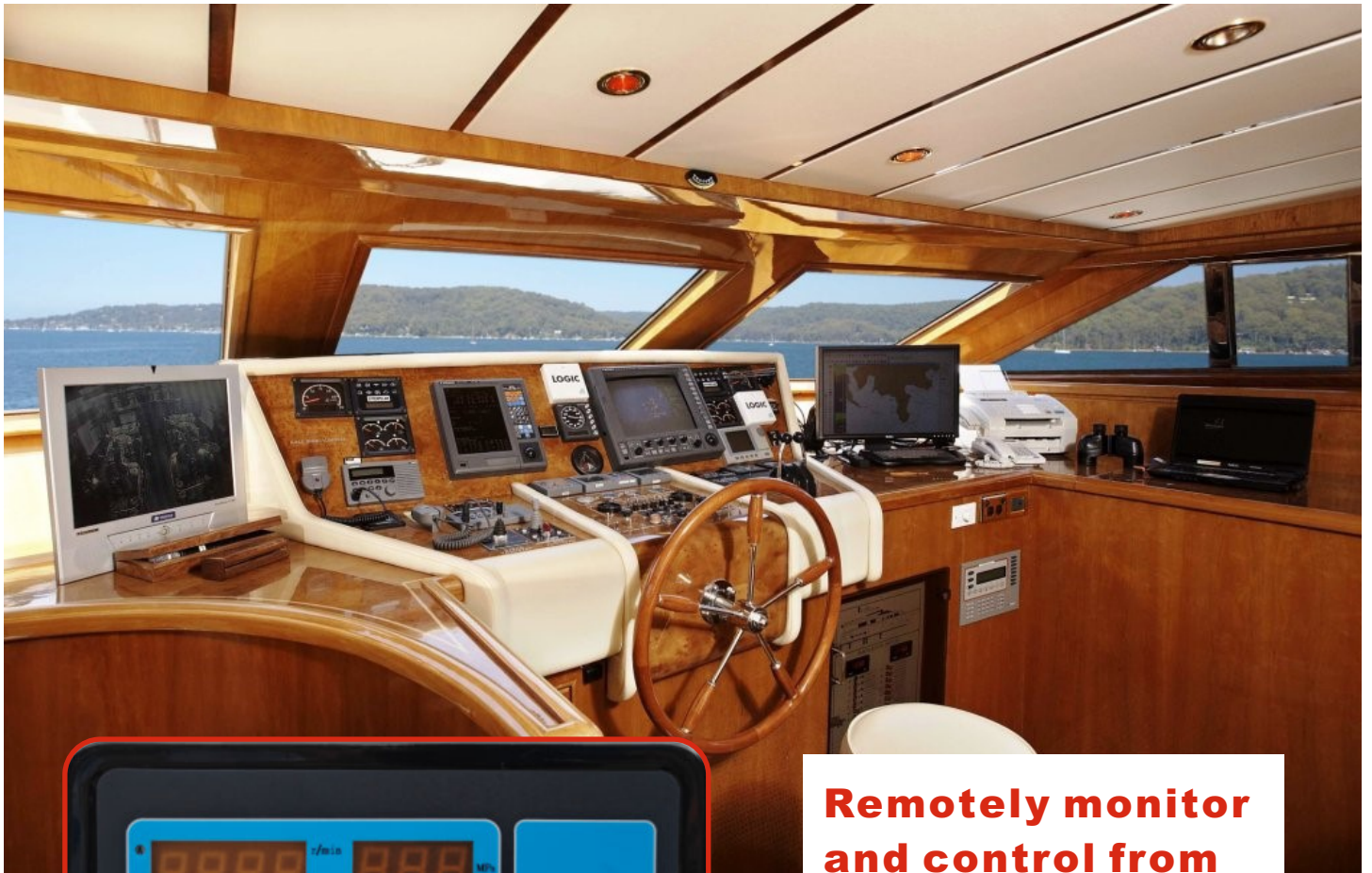
ISO9001:2015 system certification
ISO/TS16949:2002 System Certification
Quality System Certification
Environmental System Certification
Occupational Health Certification
CCS ship inspection certificate
IMO: Emissions Certification
LL-C system certification

Marine Gearbox

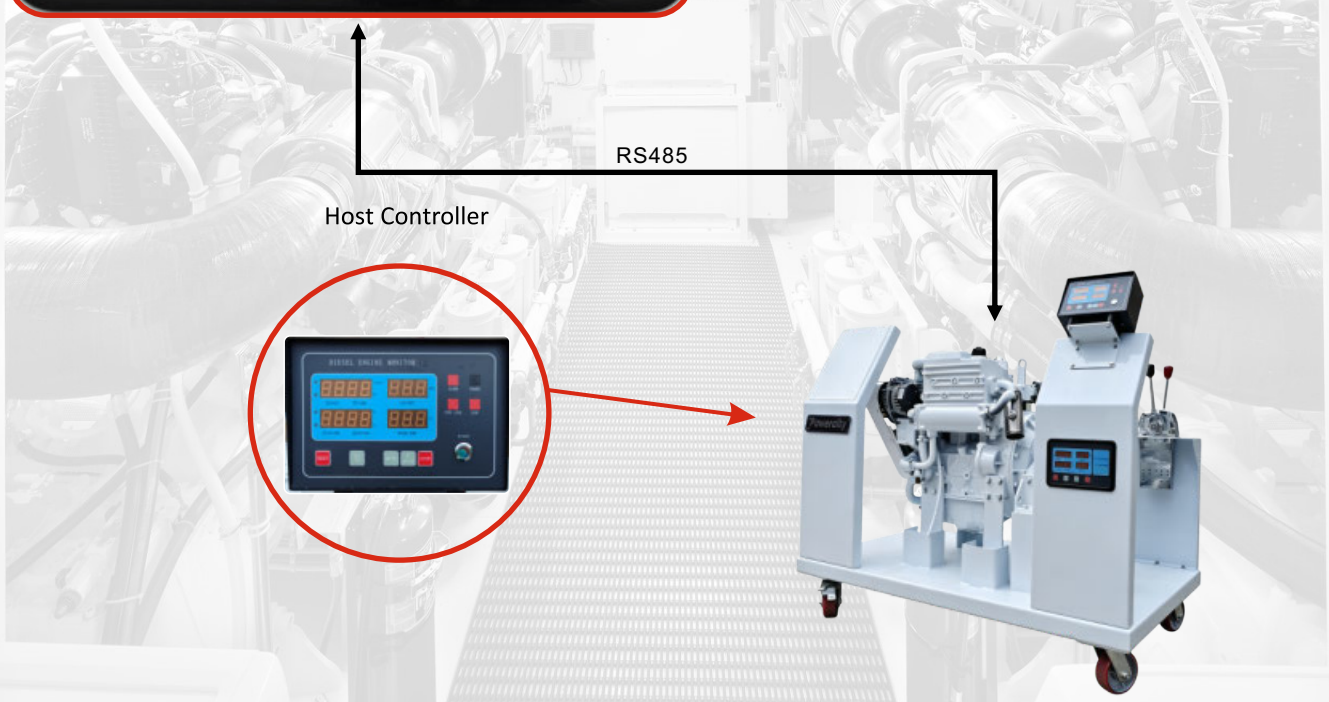
Compatible with 3M1800/N high-speed main engine, model MA125A features a reduction ratio of 2.46:1 rated input speed 1500-3000 r/min and rated transmission capacity up to 0.020kW/(r·min⁻¹). The unit fully complies with industry standard CB/T 3003-2011 for marine medium-speed diesel engine gearboxes, certified by CCS (China Classification Society). Certifications from international classification societies including LR, BV, DNV-GL are available upon request.

Constructed with thick cast iron housing and high-precision quenched helical gears, it achieves transmission efficiency exceeding 96%. Hydraulic clutch ensures smooth shifting with low noise and vibration, and multi-angle installation is supported. Ideal for small fishing vessels, traffic boats and ot craft. Modular design enables easy disassembly and maintenance, delivering reliable long-term operation and superior fuel efficiency.





**Remotely monitor
and control from
the Captain's
bridge through
QYX-G Remote
Monitoring Module.**



Specifications

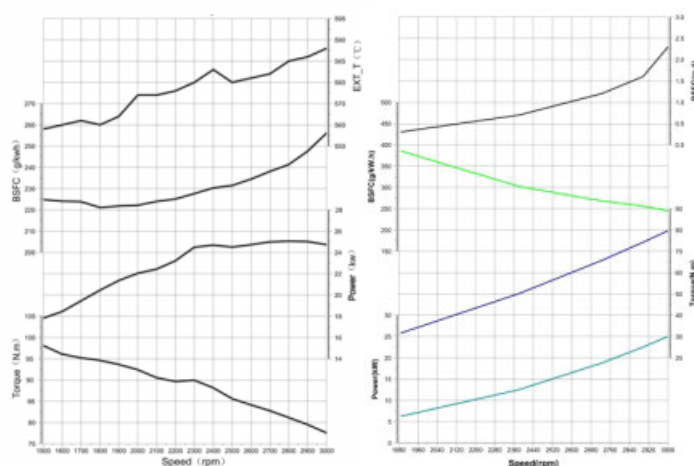


Model	PPS-30R
Engine Model	3M1800/N
Usage	Marine Propulsion
Type	NA
Displacement	1.8L
Rated power/speed	25kw/3000rpm
Overload power/speed	/
Borex Stroke mm	87 × 103
Minimum fuel consumption rate	≤235g/kWh
Starting method	Electric start
Noise	≤86dB(A)
Cylinder No.	3
Fuel system	BQ pump
Average piston speed	10.3m/s
Ignition Order	1—2—3
Max temp of inlet fuel	45°C
Max Fuel inlet flow	30L/h
Max temp of return fuel	80°C
Max fuel return flow	20L/h
Air intake pressure	95–100kpa
Air intake flow	190m³/h
Exhaust flow	190m³/h
Exhaust temp	≤550°
Open temp of thermostat	71°C
Full-open temp of thermostat	81°C
Crankshaft Rotation	CCW (Facing the flywheel)
Max allowable air inlet restriction	5kpa
Max allowable air outlet restriction	10kpa
Oil pan capacity	6L
Dimension(with heat exchanger,air filter)	679x596x679
Marine Gearbox Model	MA125A
Rated Input Speed	1500~3000RPM
Ratio	2.46
Rate	0.020kW/(r·min ⁻¹)
Options/Comments	Mechanical or electrical remote operation
Centre distance	125mm
Rated Propeller Thrust	5.5KN
Mechanical Efficiency	≥ 96%
Reversal Time	≤ 10s
Hydraulic Oil Pres.	1.0~1.3MPa
Oil Brand	SD/CC30 SD/CC40 or SAE30
Oil Capacity	4.8L
Oil Temperature	≤ 80°C
Consumption of Cooling Water	≥ 25 L/min
Permissible Inclination	10°in longitudinal, 15°transversal
Overhaul	6000h

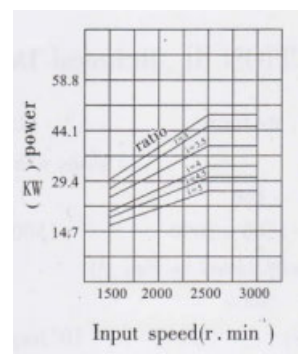


1150 X 700 X800mm

► External characteristic curve Propelling characteristic curve



► Capacity Chart



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