



MARINE DATA SHEET

N45 100

FIXED SPEED AUXILIARY

**Our efficiency.
Your edge.**

SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Air handling	NA
Cylinders arrangement	4L
Bore x Stroke	104 x 132 mm
Total displacement	4.5 liters
Valves per cylinder	2
Cooling System	Liquid
Direction of Rotation (viewed facing flywheel)	CCW (Counterclockwise)
Engine management	Mechanical
Injection System	M

STANDARD CONFIGURATION

Flywheel housing	SAE 3
Flywheel size	10"
Air filter	Left side
Turbocharger	Naturally Aspirated (NA)
Cooling type	Heat Exchanger Tube Type
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	Included
Fuel filter	1
Fuel prefilter	Included (loose)
Fuel pump	Included
Oil filter	1
Oil sump	Cast iron
Oil vapours blowby circuit	On valve cover
Oil heat exchanger	Built in the crankcase
Oil filler	By cylinder head cover
Starter	12 V - 3 kW
Alternator	12 V - 90 A with W contact
Engine stop device	Electrical excitation
Wiring harness	With negative to ground connection
Painting color	Grey RAL 7021

Legend

Arrangement

- LIn line
- V90° "V" configuration

Air Handling

- TCATurbocharged with aftercooler
- TCTurbocharged
- NaNaturally Aspirated

Turbocharger

- WGWastegate
- VGTVariable Geometry Turbocharger
- TSTTwin Stage Turbocharger

Exhaust System

- EGRExhaust Gas Recirculation
- SCRSelective Catalytic Reduction

Injection System

- MMechanical
- CRCommon Rail
- EUIElectronic Unit Injector
- MPIMulti Point Injection

WEIGHT AND DIMENSIONS*

Dimensions	(L**xWxH) 811 x 700 x 836 mm
Dry Weight	450 Kg

* Weight and dimensions can be changed according to engine options and configurations
** Lenght at flywheel

ELECTRICAL SYSTEM

Voltage	12 V
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NOT INCLUDED IN STANDARD CONFIGURATION - BASEFRAME AND GENSET ALTERNATOR (SOS DIESEL ENGINE ONLY)

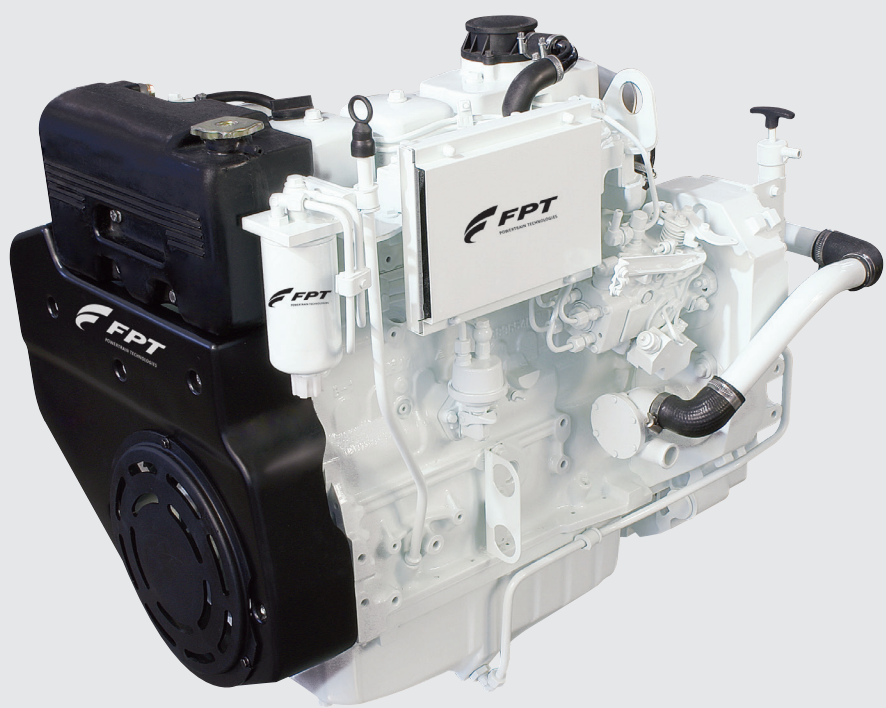
Battery - minimum capacity recommended	180 Ah
Battery - minimum cold cranking capacity recommended	800 Ah

RATING TYPE		PRP	PRP
Maximum power [*]	kWm	36	44
At speed	rpm	1500	1800
Specific fuel consumption (rated speed)	g/kWh @ rpm	228 @ 1500	228 @ 1800
Oil consumption at max rating	% of fuel cons.	0,25%	0,25%
Oil and oil filter maintenance interval for replacement	hours	600	600

* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

Rating

A1	High performance crafts. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 300 hours per year.	C	Medium duty. Full throttle operation <25% of use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 3000 hours per year.
A2/B1	Pleasure/commercial vessels. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 1000 hours per year.	D	Heavy duty.
B	Light duty. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 1500 hours per year.	PRP	Prime Power conforms to ISO 8528. Unlimited hours per year. Maximum mean load factor of 70% of rated power over 24h of operation. Overload +10% (maximum of 1 h in 12 h,maximum in 25 h per year).



Rating type PRP:
Rating type PRP:

36 kWm @ 1500 rpm
44 kWm @ 1800 rpm



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