MARINE APPLICATIONS



N45 100

4 CYLINDERS IN LINE - DIESEL CYCLE

74 kW (100 HP) @ 2800 rpm (A1) 66.5 kW (90 HP) @ 2800 rpm (B) 63 kW (85 HP) @ 2800 rpm (C) 63 kW (85 HP) @ 2800 rpm (D)

Specifications		
Thermodynamic cycle		Diesel 4 stroke
Air intake		NA
Arrangement		4L
Bore x Stroke	mm	104 x 132
Total displacement		4.5
Valves per cylinder	n.	2
Cooling system		liquid
Direction of rotation (viewed facing flywheel)		CCW
Engine management		mechanical
Injection system		mechanical pump
Electrical system		
Voltage	V	12
Standard configuration		
Flywheel housing	type	SAE 3
Flywheel size	inch	10
Air filter		left side
Turbocharger		Naturally Aspirated (NA)
Heat exchanger		tube type
Exhaust gas - water mixer		-
Water charge tank		included
Fuel filter	n.	1
Fuel prefilter		included (loose)
Fuel pump		included
Oil filter	n.	1
Oil sump		cast iron
Oil vapours blow-by circuit		on valve cover
Oil heat exchanger		built in the crankcase
Oil filler		by cylinder head cover
Starting motor		12V - 3kW
Alternator		12V - 90A with W contact
Engine stop device		electronic excitation
Electrical wiring		with negative to ground connection
Painting	color	white "ICE"

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

FPT OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE, CONTACT THE FPT SALES NETWORK.

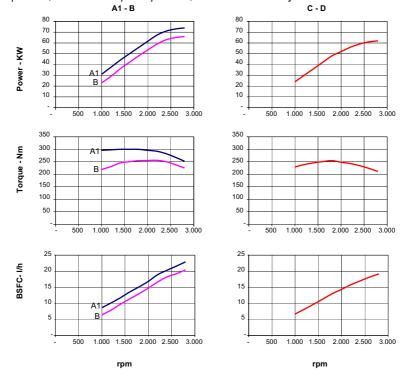


N45 100

Rating type		A1	В	С	D	
Maximum power [*]	kW(HP)	70 (100)	66.5 (90)	63 (85)	63 (85)	
At speed	rpm	2800	2800	2800	2800	
Maximum no load governed speed at max rating	rpm	3100	3100	3100	3100	
Minimum idling speed	rpm	650	650	650	650	
Mean piston speed at rated speed	m/s	12.3	12.3	12.3	12.3	
BMEP at max power	kg/cm ²	8.6	7.2	7.2	7.2	
Specific fuel consumption at full load (best value)	g/kWh @ rpm		230 @ 1800			
Oil consumption at max rating	(% of fuel cons.	cons.) ≤ 0.1				
Minimum starting temperature without auxiliaries	°C		-10°			
Oil and oil filter maintenance interval for replacement	hours		600			

* Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

Test conditions: 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity .



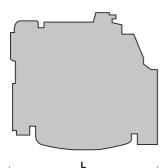


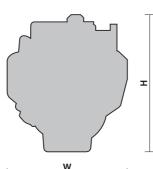
A1 = High performance crafts.

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:

- 300 hours per year (A1 service)
- 1500 hours per year (B service)





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. D = Heavy duty:

Maximum rating utilisation up to 100% of use period, for unlimited hours per year.

 $L = 811 \text{ mm.} \\ W = 700 \text{ mm.} \\ H = 836 \text{ mm.} \\ Dry weight (without marine gear) = 450 \text{ kg.}$

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