

4 CYLINDERS IN LINE - DIESEL CYCLE

169 kW (230 HP) @ 4000 rpm (A1)

129 kW (175.5 HP) @ 3500 rpm (B)

85 kW (115.6 HP) @ 3500 rpm (C)

Specifications

Thermodynamic cycle		Diesel 4 stroke
Air intake		TCA
Arrangement		4L
Bore x Stroke	mm	95.8 x 104
Total displacement	l	2.998
Valves per cylinder	n.	4
Cooling system		liquid
Direction of rotation (viewed facing flywheel)		CCW
Engine management		by EDC (Electronic Diesel Control)
Injection system		Electronic Common Rail (E.C.R.)

Electrical system

Voltage	V	12
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Standard configuration

Flywheel housing	type	SAE 4
Flywheel size	inch	8
Air filter		rear side
Turbocharger		Waste Gate (water cooled) Turbo with Aftercooler (TCA)
Heat exchanger		tube type
Exhaust gas - water mixer		-
Water charge tank		included
Fuel filter	n.	1
Fuel prefilter		included (loose)
Fuel pump		included (loose)
Oil filter	n.	1
Oil sump		aluminium
Oil vapours blow-by circuit		front
Oil heat exchanger		built in the crankcase
Oil filler		by cylinder head cover
Starting motor		12V - 2.3kW
Alternator		12V - 110A
Engine stop device		by electronic central unit
Electrical wiring		with negative to ground connection
Painting	color	white "ICE"

Not included in the standard configuration

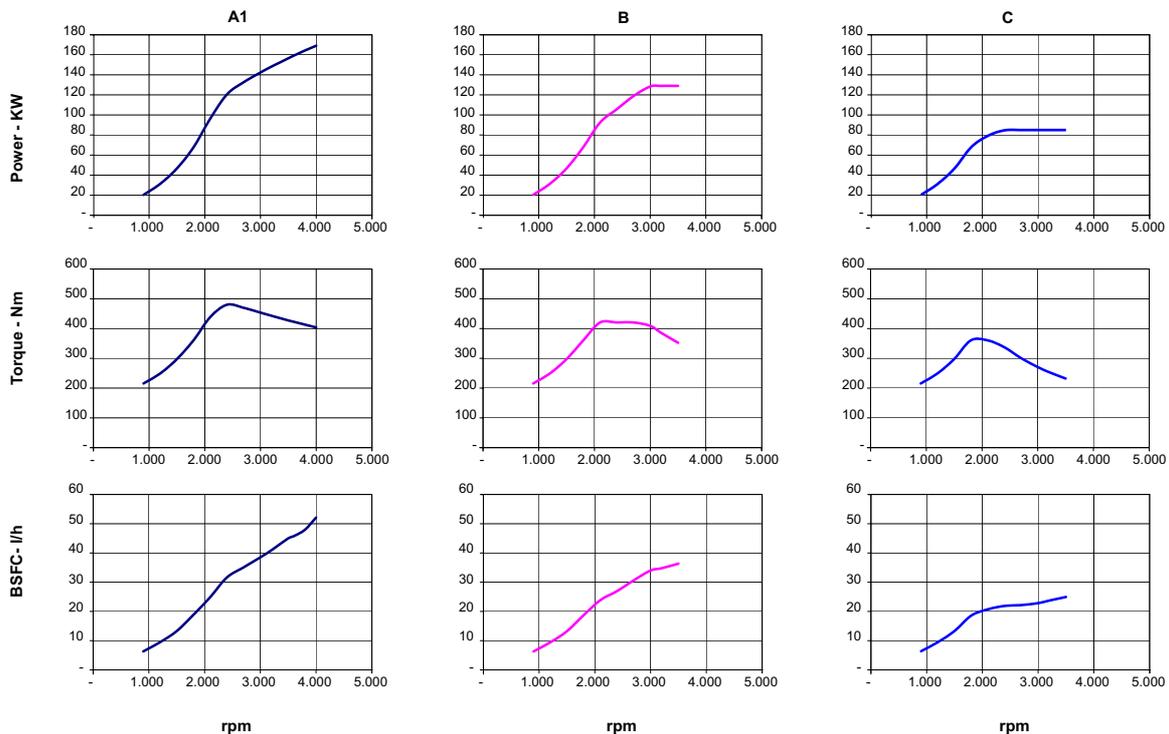
Battery - minimum capacity recommended		110 Ah
Battery - minimum cold cranking capacity recommended		800 A

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.

Rating type		A1	B	C
Maximum power [*]	kW(HP)	169 (230)	129 (175.5)	85 (115.6)
At speed	rpm	4000	3500	3500
Maximum no load governed speed at max rating	rpm	4280	3980	3980
Minimum idling speed	rpm	715 ± 65	715 ± 65	715 ± 65
Mean piston speed at rated speed	m/s	13.9	12.1	12.1
BMEP at max power	kg/cm ²	20.5	18.0	15.3
Specific fuel consumption at full load (best value)	g/kWh @ rpm	260 @ 4000		
Oil consumption at max rating	(% of fuel cons.)	≤ 0.2		
Minimum starting temperature without auxiliaries	°C	-10°		
Oil and oil filter maintenance interval for replacement	hours	600		

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

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

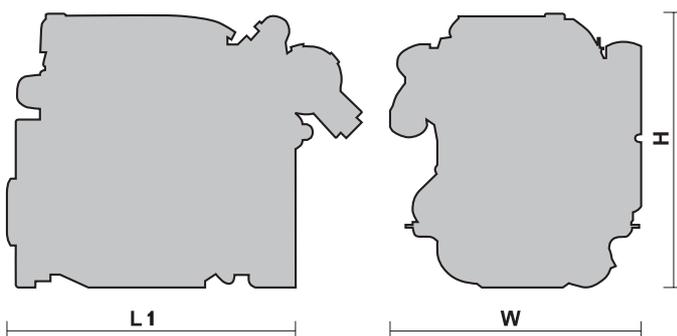


Fuel density = 840 g/l

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.

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.

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.



L1 = 780 mm.
 W = 775 mm.
 H = 753 mm.
 Dry weight (without marine gear) = 330 kg.

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 Specifications subject to change without notice.
 Illustrations may include optional equipment.