

**NEF series****SPECIFICATIONS**

Thermodynamic Cycle	Diesel 4 stroke
Air Handling	NA
Arrangement	4L
Bore x Stroke (mm)	104 X 132
Total Displacement (l)	4.5
Valves per cylinder (n°)	2
Cooling System	liquid
Direction of Rotation (viewed facing flywheel)	CCW
Engine management	mechanical
InjectionSystem	MPI

**STANDARD CONFIGURATION**

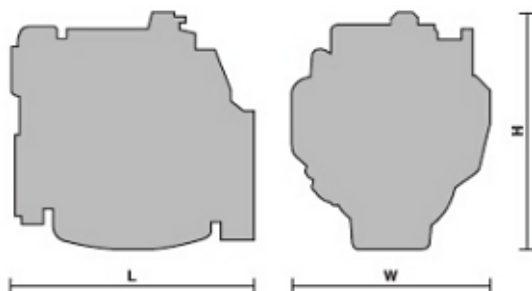
Flywheel housing (type)	SAE 3
Flywheel size (inch)	10
Air Filter	left side
Turbocharger	Naturally Aspirated (NA)
Heat Exchanger	tube type
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	included
Fuel filter (n°)	1
Fuel prefilter	included (loose)
Fuel Pump	included
Lift pump	-
Oil filter (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
Starter	12V - 3kW
Alternator	12V - 90A with W contact
Engine stop device	electrical excitation
Wiring harness	with negative to ground connection
Painting color	white "ICE"

**ELECTRICAL SYSTEM**

Voltage	12
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**NOT INCLUDED IN STANDARD CONFIGURATION**

Battery - minimum capacity recommended [*] (Ah)	180
Battery - minimum cold cranking capacity recommended [*] (A)	800

**WEIGHT AND DIMENSIONS**

L = 811  
W = 700  
H = 836  
**Dry Weight** (without marine gear)= Kg 450

**Legend**

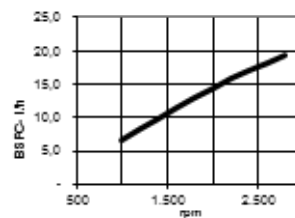
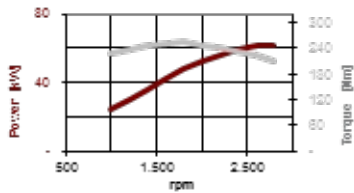
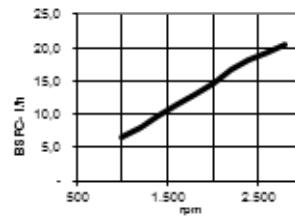
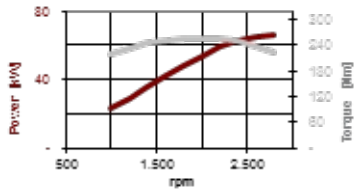
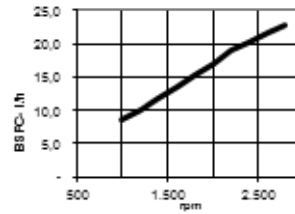
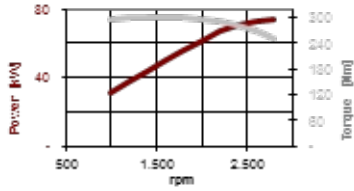
Arrangement	Air Handling	Turbocharger	InjectionSystem	
L (in line)	TAA (Turbocharged with aftercooler) TC (Turbocharged) NA (Naturally Aspirated)	WG (Wastegate) VGT (Variable Geometry Turbocharger)	M (Mechanical) ECR (Electronic Common Rail) EUI (Electronic Unit Injector)	SD: Stern Drive version PD (POD Drive version)

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE [WWW.FPTINDUSTRIAL.COM](http://WWW.FPTINDUSTRIAL.COM)



RATING TYPE	A1	A2	B	C
Maximum power (kW(HP))@rpm)	70 ( 100 ) @ 2800	-	66.5 ( 90 ) @ 2800	63 ( 85 ) @ 2800
High idle speed (rpm)	3100	-	3100	3100
Low idle speed (rpm)	± 650	--	± 650	± 650
Mean piston speed at rated speed (m/s)	12.3	-	12.3	12.3
BMEP at max power (kg/cm)	8.6	-	7.2	7.2
Specific fuel consumption at full load (best value) (g/kWh @ rpm)	230 @ 1800	-	230 @ 1800	230 @ 1800
Oil consumption at max rating (% of fuel 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%.



- 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 usage 300 hours per year.
- A2 Pleasure Commercial Vessels. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 1000 hours per year.
- B Light Duty: Full throttle operation restricted within 10% of use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 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 usage 3000 hours per year.
- D Heavy Duty

FPT INDUSTRIAL 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

