Rating type A2:

- kW (- HP) @ - rpm

Rating type B:

66.5 kW (90 HP) @ 2800 rpm

Rating type C:

63 kW (85 HP) @ 2800 rpm

SPECIFICATIONS

Thermodynamic cycle		Diesel 4 stroke
Air handling		NA
Cylinders arrangement		4L
Bore x Stroke	millimeters	104 x 132
Total displacement	liters	4.5
Valves per cylinder	number	2
Cooling System		liquid
Direction of Rotation (viewed facing	flywheel)	CCW
Engine management		mechanical
Injection System		MPI

WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	811 x 700 x 836
Dry Weight	Kg	450

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

STANDARD CONFIGURATION Flywheel housing

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

ELECTRICAL SYSTEM

voitage	V	12

NOT INCLUDED IN STANDARD CONFIGURATION

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

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)	TST (Twin Stage Turbocharger)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

- 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.
- 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.

SAF 3

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. Heavy Duty

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 SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

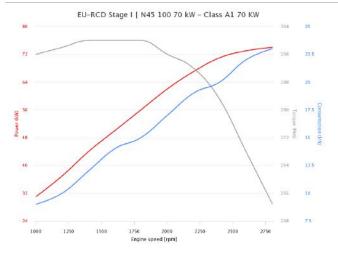


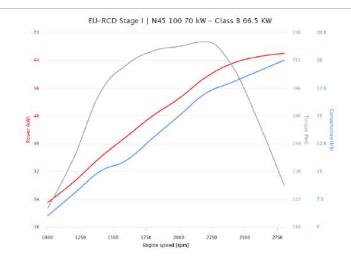


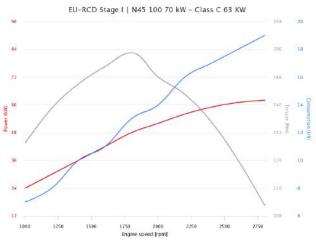
rpm 2800 - 2800 2800 2800 2800 2800 2800 28	RATING TYPE		A1	A2	В	С
rpm 3100 - 3100 3100 inimum idling speed at max rating rpm 650 - 650 650 ean piston speed at rated speed m/s 12.3 - 12.3 3100 MEP at max power bar 8.6 - 7.2 7.2 pecific fuel consumption at full load (best value) g/kWh @ rpm 230 @ 1800 - 230 @ 1800 230 @ 1800 il consumption at max rating g/kWh @ rpm = 0.1 inimum starting temperature without auxiliaries °C - 10°	Maximum power [*]	kW (HP)	73.5 (100)	- (-)	66.5 (90)	63 (85)
inimum idling speed rpm 650 - 650 650 ean piston speed at rated speed m/s 12.3 - 12.3 3100 meP at max power bar 8.6 - 7.2 7.2 pecific fuel consumption at full load (best value) g/kWh @ rpm 230 @ 1800 - 230 @ 1800 230 @ 1800 il consumption at max rating g/kWh @ rpm = 0.1 inimum starting temperature without auxiliaries °C -10°	At speed	rpm	2800	-	2800	2800
lean piston speed at rated speed m/s 12.3 - 12.3 3100 MEP at max power bar 8.6 - 7.2 7.2 pecific fuel consumption at full load (best value) g/kWh @ rpm 230 @ 1800 - 230 @ 1800 230 @ 1800 il consumption at max rating g/kWh @ rpm = 0.1 inimum starting temperature without auxiliaries °C -10°	aximum no load governed speed at max rating	rpm	3100	-	3100	3100
MEP at max power bar 8.6 - 7.2 7.2 pecific fuel consumption at full load (best value) g/kWh @ rpm 230 @ 1800 - 230 @ 1800 230 @ 1800 il consumption at max rating g/kWh @ rpm = 0.1 inimum starting temperature without auxiliaries °C -10°	inimum idling speed	rpm	650	-	650	650
pecific fuel consumption at full load (best value) g/kWh @ rpm 230 @ 1800 - 230 @ 1800 230 @ 1800 230 @ 1800 - 230 @ 1800 230 @ 1800 - 10°	ean piston speed at rated speed	m/s	12.3	-	12.3	3100
consumption at max rating g/kWh @ rpm = 0.1 nimum starting temperature without auxiliaries °C -10°	MEP at max power	bar	8.6	-	7.2	7.2
nimum starting temperature without auxiliaries °C -10°	ecific fuel consumption at full load (best value)	g/kWh @ rpm	230 @ 1800	-	230 @ 1800	230 @ 1800
	consumption at max rating	g/kWh @ rpm		= 0.1		
and oil filter maintenance interval for replacement hours 600	nimum starting temperature without auxiliaries	°C		-10°		
Tand on the maintenance interval or replacement	il 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%.

POWER & TORQUE







		LEGEND		
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- B C D

Heavy Duty



POWERTRAIN TECHNOLOGIES

