

Specifications

Thermodynamic cycle	Diesel 4 stroke	
Air handling	Turbo Charged with Aftercooler	
Arrangement	6L	
Bore x Stroke	mm (inch)	135 x 150 (5.3 X 5.9)
Total displacement	l (cid)	12.9 (787)
Valves per cylinders	n°	4
Cooling	Liquid	
Direction of rotation (viewed facing flywheel)	Counterclockwise	
Compression ratio	16,5:1	
Injection system	Direct - Electronic Common Rail	

Performances

Rated power [*]	kW (Bhp)	407 (545)
At speed	rpm	2100
Peak power	kW (Bhp)	415 (556)
At speed	rpm	1900
Peak torque	Nm (Ft/lb)	2401 (1771)
At speed	rpm	1400
Minimum starting temperature without auxiliaries	°C (°F)	-15 (5)
Oil and oil filter maintenance interval for replacement [**]	hours	600
Dry weight (standard configuration without: oil, cooling, clutch, A/C Compressor)	kg (Lbs)	1320 (2910)

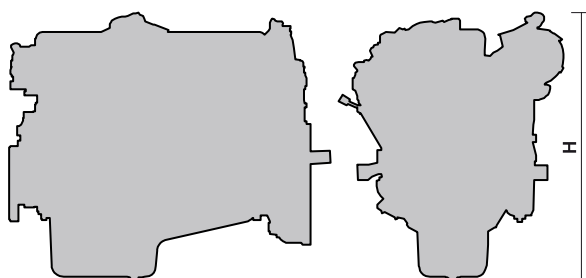
FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT SALES NETWORK.

[*] Power at flywheel according dir. 97/68 EC (w/o fan), after 50 hours of run-in, tolerance ±3%, fuel EN 590.

[**] Oil type: Approved engine oil specification: 10W-40 ACEA E9 / API CH-4 lowSAP; for ambient temperature below -25°C (-13°F): 0W-40 CJ-4 / 5W-30 ACEA E6 / API CJ-4 lowSAP.

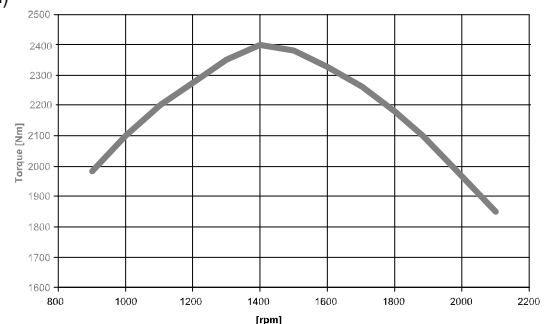
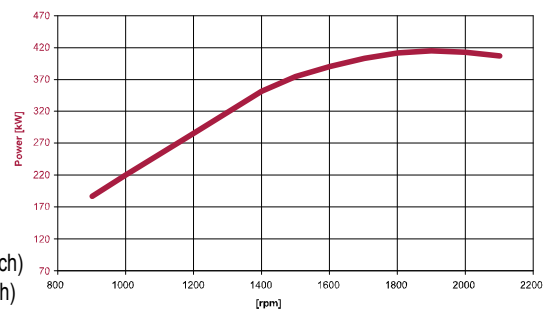
Test conditions: ISO 3046/1, 25 °C (77°F) air temperature, 100 kPa (14.5 PSI) atmospheric pressure, 30% relative humidity - Applicable also to DIN 6271, BS 5514, SAE J1349 Standards.

Dimensions:



L = 1359 mm (53.5 inch)
 W = 951 mm (37.4 inch)
 H = 1212 mm (47.7 inch)

Engine layout for reference only



Standard configuration

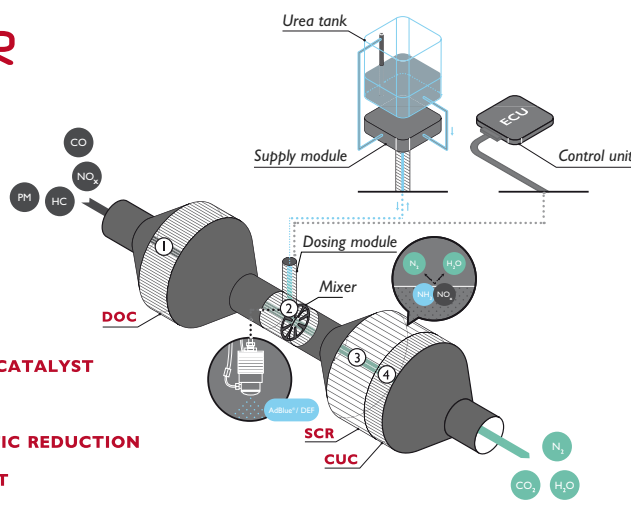
Flywheel housing	type	Rear, Aluminium, SAE #1
Flywheel size	inch	for 14" clutch
Intake manifold location		high / right side
Exhaust manifold location		high / left side / middle flange
Turbocharger		Waste Gate valve with exhaust flap
Turbocharger location		middle high / left side / back exhaust
Fan transmission ratio		1.37 : 1
Distance between fan - crankshaft centers	mm	x = -20 ; y = 225
Fuel filter		Single cartridge on engine, middle position, right side
Oil filter		single cartridge, front left side
Oil sump		stamped steel - front well - elastic suspension - 17° angularity
Oil vapours blow-by circuit		Centrifugal filter located on gear train cover
Oil heat exchanger		oil / water engine cooler
Oil filler		On valve cover, middle position
Starter		Denso 7.5 kW - 24 V, right side high mounted
Alternator		Mitsubishi 90A - 24V, right side high mounted
Wiring harness		engine harness connected to ECU
Painting	color	Gray - RAL 7021

Not included in the standard configuration

PTO - transmission ratio		1.36 : 1
PTO maximum available torque	SAE A	150Nm (111 Ft/lb) (9 teeth)
	SAE B	150Nm (111 Ft/lb) (13 teeth) - 200Nm (148 Ft/lb) (DIN 5482)
Battery - minimum capacity recommended		180Ah (24V)
Battery - minimum cold cranking capacity recommended (below -25°C lube oil for cold conditions needed)		800A (24V)

Aftertreatment System

HI-eSCR



- 1 **DIESEL OXIDATION CATALYST**
- 2 **UREA INJECTION**
- 3 **SELECTIVE CATALYTIC REDUCTION**
- 4 **CLEAN-UP CATALYST**

LEGEND

PM Particulate Matter
 HC unburnt Hydrocarbons
 NO_x Nitrogen Oxides
 CO Carbon Monoxide
 N₂ Nitrogen
 CO₂ Carbon Dioxide
 H₂O Water
 AdBlue®/ DEF = CO(NH₂)₂ + H₂O

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.