

Specifications

| | | |
|--|----|------------------------------------|
| Thermodynamic cycle | | Diesel 4 stroke |
| Air intake | | TCA |
| Arrangement | | 6L |
| Bore x Stroke | mm | 117 x 135 |
| Total displacement | l | 8.7 |
| 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 | 24 |
|---------|---|----|

Standard configuration

| | | |
|-------------------------------------|-------|---|
| Flywheel housing | type | SAE 1 |
| Flywheel size | inch | 14 |
| Air filter | | rear side |
| Turbocharger | | Waste Gate (water cooled) Turbo with Aftercooler (TCA) |
| Double water circuit heat exchanger | | tube type |
| Exhaust cooled elbow | | - |
| Water charge tank | | included |
| Fuel filter | n. | 1 - right side |
| Fuel prefilter | | 1 (supplied loose) |
| Fuel pump | | 1 gear driven |
| Oil filter | n. | 2 - left side |
| Oil sump | | aluminium |
| Oil vapours blow-by circuit | | included |
| Oil heat exchanger | | included |
| Oil filler | | by cylinder head cover |
| Starting motor | | 24V - 5.5kW |
| Alternator | | 28V - 90A |
| Engine stop device | | by electronic central unit |
| Electrical wiring | | with negative to ground connection |
| Painting | color | white "ICE" |

Not included in the standard configuration

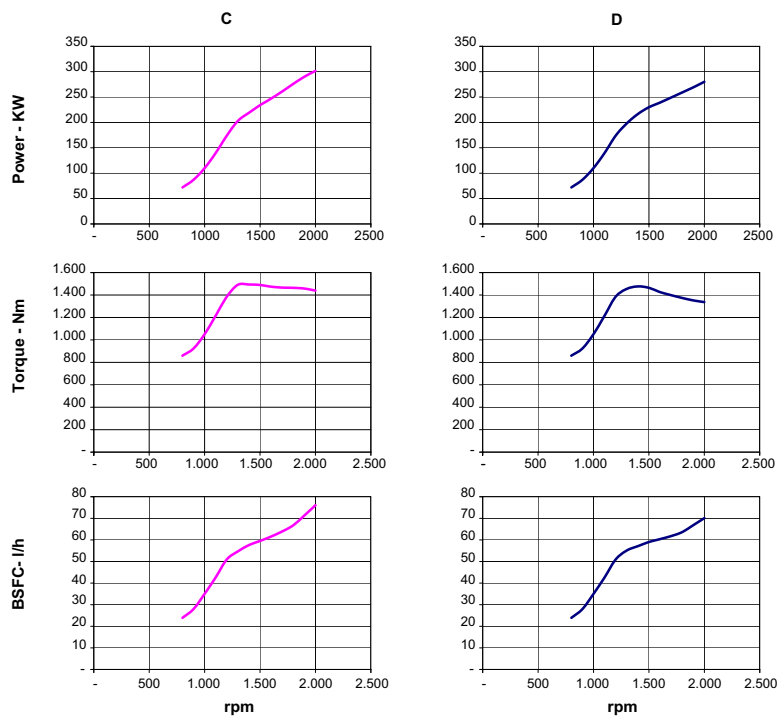
| | | |
|--|--|------------|
| Battery - minimum capacity recommended | | 2 x 120 Ah |
| Battery - minimum cold cranking capacity recommended | | 900 A |

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 | | C | D |
|---|--------------------|-----------|-----------|
| Maximum power [*] | kW(HP) | 301 (410) | 280 (380) |
| At speed | rpm | 2000 | 2000 |
| Maximum no load governed speed at max rating | rpm | | 2200 |
| Minimum idling speed | rpm | | 600 |
| Mean piston speed at rated speed | m/s | | 9 |
| BMEP at max power | kg/cm ² | 21.2 | 19.6 |
| Specific fuel consumption at full load (best value) | g/kWh | 214.9 | 210.3 |
| 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 | | 500 |

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

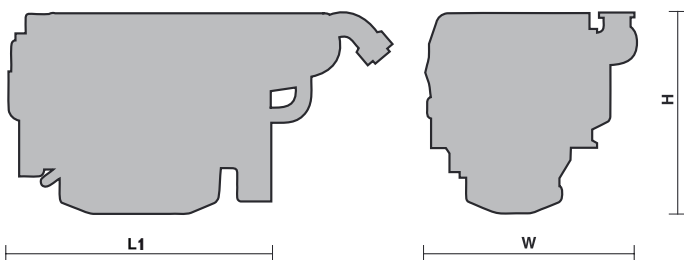
Test conditions: 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity .



Fuel density = 840 g/l

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.



L1 = 1288 mm.
 W = 868 mm.
 H = 961 mm.
 Dry weight (without marine gear) = 940 kg.