

## SPECIFICATIONS

|  |                 |           |
|--|-----------------|-----------|
| Thermodynamic cycle                            | Diesel 4 stroke |           |
| Air Handling                                   | TC              |           |
| 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             |           |
| Compression ratio                              | 17.5:1          |           |
| Injection System                               | M               |           |

|     |   |  |
|-----|---|--|
| EGR | - |  |
|-----|---|--|

## PERFORMANCES

|   |                |                 |
|---|----------------|-----------------|
| Rated power [*]   | kW (HP) @ rpm  | 74 (101) @ 2200 |
| Peak torque   | Nm (kgm) @ rpm | 410 (42) @ -    |
| High idle speed   | rpm            | 2430            |
| Low idle speed  | rpm            | ±800            |
| Minimum starting temperature without auxiliaries        | °C             | -15°            |
| Oil and oil filter maintenance interval for replacement | hours          | 600             |

## STANDARD CONFIGURATION

|   |   |                               |
|---|---|-------------------------------|
| Flywheel housing                          | type  | SAE 3 - (narrow) - cast iron  |
| Flywheel size                             | inch  | 11" ½                         |
| Intake manifold location                  | right side / rearwards                      |                               |
| Exhaust manifold location                 | right side / frontwards                     |                               |
| Turbocharger                              | Fixed Geometry Turbo                        |                               |
| Turbocharger location                     | high / right side                           |                               |
| Fan transmission ratio                    | 1.4:1                                       |                               |
| Distance between fan - crankshaft centers | millimeters                                 | X=0 Y=296                     |
| Fuel filter                               | number                                      | single cartridge - left side  |
| Fuel prefilter                            | optional                                    |                               |
| Fuel Pump                                 | mechanical rotary pump                      |                               |
| Oil filter                                | number                                      | single cartridge - right side |
| Oil sump                                  | cast iron / central sump / high inclination |                               |

|                             |                               |  |
|-----------------------------|-------------------------------|--|
| Oil vapours blow-by circuit | timing cover - 4th cyl.       |  |
| Oil heat exchanger          | incorporated into the block   |  |
| Oil filler                  | on valve cover - 1st cylinder |  |
| Alternator                  | 12 V - 90 A with W contact    |  |
| Hydraulic steering pump     | -                             |  |
| Wiring harness              | -                             |  |
| Painting color              | grey                          |  |

|   |                       |   |
|---|-----------------------|---|
| Starter   | 12 V - 3 kW           |   |
| Maximum torque available from crankshaft pulley | Nm                    | - |
| Engine stop device                              | electrical excitation |   |

## WEIGHT AND DIMENSIONS

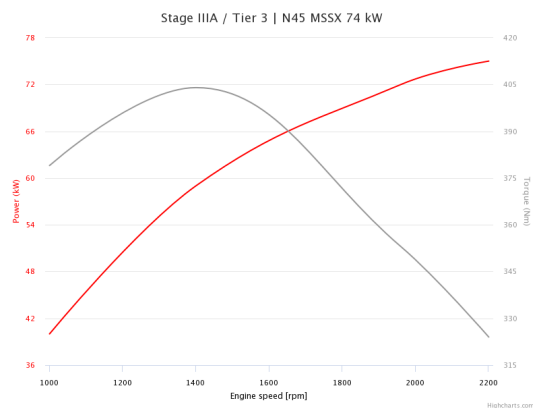
|            |            |                 |
|------------|------------|-----------------|
| Dimensions | LxWxH (mm) | 806 x 601 x 905 |
|------------|------------|-----------------|

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## POWER & TORQUE



## NOT INCLUDED IN STANDARD CONFIGURATION

|                                |     |  |
|--------------------------------|-----|--|
| Power Take Off (PTO)           | -   |  |
| PTO - transmission ratio       | -   |  |
| PTO - maximum available torque | --- |  |

|  |    |               |
|--|----|---------------|
| Battery - minimum capacity recommended               | Ah | 180 Ah (12 V) |
| Battery - minimum cold cranking capacity recommended | Ah | 12 V - 950 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 Turbocharge)         | EUI (Electronic Unit Injector) |                                     |
|                           |                                     |                                      | MPI (Multi Point Injection)    |                                     |

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)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



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 Turbocharge)         | EUI (Electronic Unit Injector) |                                     |
|                           |                                     |                                      | MPI (Multi Point Injection)    |                                     |

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)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

