

# FORD ECOTORQ 13G45

450 kVA standby power  
Non-regulated emission  
For generator sets

## Features

### Low cost of ownership

Through world class fuel economy, long maintenance interval and use of widely available maintenance parts, Ecotorq engines care about your business.

### High uptime

Single engine architecture and powerful diagnostics make this engine easier to fix and reduce downtime.

### Reliable and durable

Based on a field proven design, this is an engine you can count on for your toughest jobs without compromising on performance.

### Performance

Top class single step 110% load carrying capability.

## Specification

|   |                                     |
|---|-------------------------------------|
| Cylinders   | 6 in-line                           |
| Displacement, liters (in <sup>3</sup> )             | 12,7 (775)                          |
| Bore and stroke, mm (in)                            | 130 x 160 (5,12 x 6,3)              |
| Compression ratio                                   | 17 : 1                              |
| Combustion system                                   | Direct injection                    |
| Liner type  | Wet liner                           |
| Aspiration  | Turbocharged aftercooled            |
| Cooling   | Liquid<br>50:50 water glycol mix    |
| Flywheel dimensions                                 | SAE 1 housing / SAE 14 in. flywheel |
| Rotation (viewed from flywheel)                     | Counter clockwise                   |
| Dry weight, kg (lb)                                 | 1.175 (2.590)                       |
| Lubrication oil capacity, liters (in <sup>3</sup> ) | 46 (2.807)                          |
| CAN standard  | SAE J1939                           |



## Standard

- Electronically controlled
- High pressure common rail
- Cast iron engine block
- Alloy steel crank with induction hardened and polished bearing surfaces
- Friction welded steel pistons
- Variable geometry turbocharger
- Spin-on, 2x full flow fuel filter
- Spin-on, 2x full flow oil filter
- Spin-on coolant filter
- Integrated oil cooler
- Deep front oil sump
- Easy access oil dipstick
- Open crankcase ventilation
- Alternator 130 A
- Starter 6,5 kW
- Belt driven cooling fan interface
- SAE 10W/40 lubrication oil
- Synchronisation enabled

## Optional

- Cooling pack with all necessary installation parts
- Air cleaner
- Fuel pre-filter with water separation and water-in-fuel sensor
- Grid heater for intake air
- Closed crank case ventilation

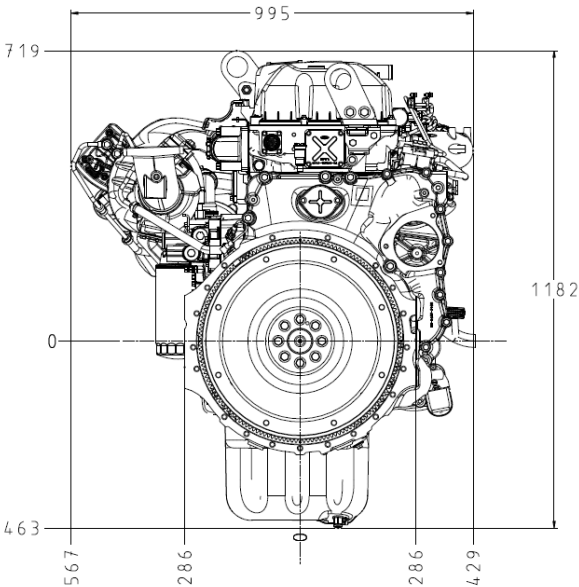
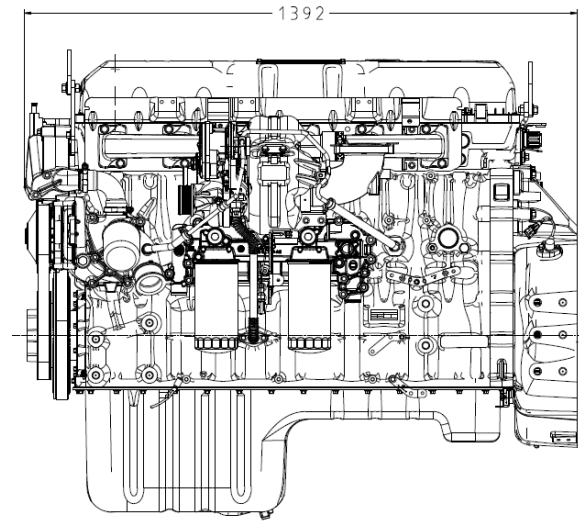
This leaflet provides information about the current technical specifications and the standard or optional equipment available as of the date it was issued. Specifications may be changed from time to time without prior notice. For this reason, please consult us to obtain updated and accurate information on the engines you wish to buy. The images used in this leaflet may be different from the engines on sale. The technical specifications provided herein are for standard engines. Selection of any optional equipment might cause differences from these specifications.

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## Dimensions

All dimensions are in mm.



## Performance

According to ISO 3046 and ISO 8528

| 1500 rpm - 50 HZ                  | Standby | Prime |
|-----------------------------------|---------|-------|
| Gross power, kW                   | 400     | 364   |
| Net power, kW                     | 387     | 351   |
| Typical generator output, kW (!)  | 360     | 326   |
| Typical generator output, kVA (!) | 450     | 408   |

| 1800 rpm - 60 HZ                  | Standby | Prime |
|-----------------------------------|---------|-------|
| Gross power, kW                   | 400     | 366   |
| Net power, kW                     | 378     | 344   |
| Typical generator output, kW (!)  | 352     | 320   |
| Typical generator output, kVA (!) | 439     | 400   |

| Fuel Consumption, g/kWh (l/h) | 1500 rpm | 1800 rpm |
|-------------------------------|----------|----------|
| Standby                       | 195 (92) | 204 (97) |
| Prime, 100% load              | 192 (82) | 201 (88) |
| Prime, 75% load               | 186 (61) | 200 (67) |
| Prime, 50% load               | 171 (38) | 198 (48) |

(!): Considering a generator efficiency of 93% and power factor of 0,8

For more information please contact [ecotorq@ford.com.tr](mailto:ecotorq@ford.com.tr) or visit our site [www.fordotosan.com.tr/en](http://www.fordotosan.com.tr/en)

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