

## GREEN POWER IVECO DIESEL ENGINE

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1500 RPM	Type GP275F
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The Engine with integrated water cooling

**Engine:** CURSOR87 TE1D

### Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 8.7 litre naturally aspirated 6 cylinder compact Engine
- Crankshaft hardened bearing surfaces and fillets for moderate on main and big end bearings
- Keystone top compression rings for long service life
- Replaceable valve guides and valve seats
- Thermostatically controlled system with gear driven circulation pump
- Lift eyelets
- Flywheel housing SAE 3
- Flywheel for flexible coupling and friction clutch
- Front engine mounting brackets

### Benefits

- Low noise emission, cost savings as no noise attenuation measures are required
- Long service intervals: 1000 hour oil change intervals and low fuel consumption bring savings in Operating costs
- Low installation costs
- Excellent load takeover characteristics ensure prompt power supply
- Combined oil cooling and lubrication prevents corrosion and cavitation
- High reliability and durability together with reduced maintenance requirement and wear parts

### Fuel System

- Fuel filter with water-separator
- Direct fuel injection system

### Oil System

- Spin-on full flow lub oil filter
- Wet steel sump with filler and dipstick

## Control Panel

### Manual or Automatic start control panel

- 24 volt Electric system
- Expansion module for CAN communication
- Control version for synchronizing a single genset with mains
- Control version for synchronizing with mains without blackout

## Rating Table : The Genset CURSOR87 TE1D Engine.

Engine type		CURSOR87 TE1D
Speed	min <sup>-1</sup>   rpm	1500
Frequency	Hz	50
<b>Engine Power</b>		
Prime power (PRP)	kVA   kW	275   220
Limited time running power (LTP)	kVA   kW	303   242
<b>Fuel consumption</b>		
100 % Load	l/hr	58.5
75 % Load	l/hr	46
50 % Load	l/hr	35.4

### PRP\* kVA/KW :

The prime power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24 hour period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

### LTP\*\* kVA/KW :

The stand-by power is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overloads is permissible for this use.

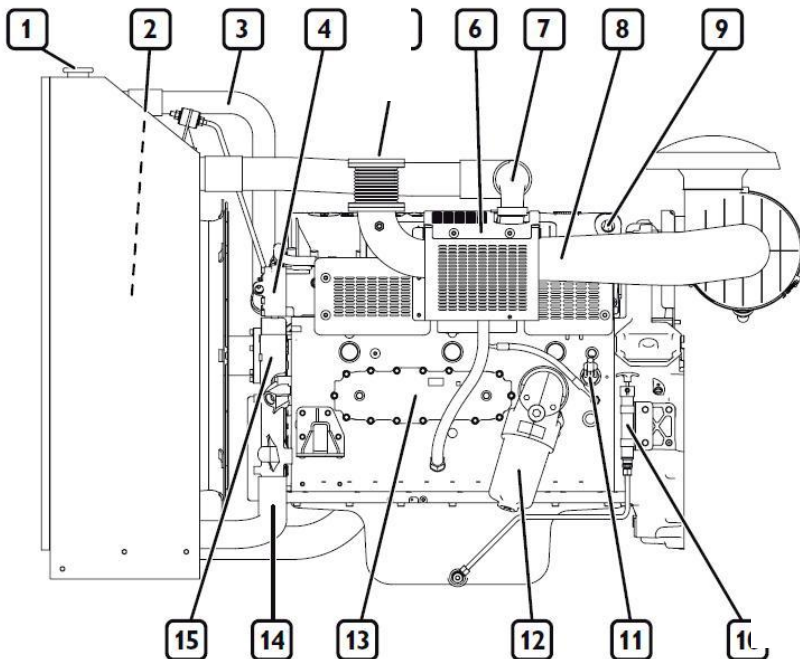
### Scope of supply :

The engine and alternator are mounted together forming a rigid monoblock, the shoulders are connected by inflexible disc connection. The mono-block is mounted on a steel base frame through silent blocks. The base frame is including a fuel tank. Starting is electric and it contains a battery. The generator monitoring system consists of a control module.

## Technical Data

Engine type	<b>CURSOR87 TE1D</b>	
Numer of cylinder	6	
Bore x Stroke	mm	117 x 135
Displacement	l	8.7
Speed	rpm	1500
Engine Power PRP	KW	220
Engine Power LTP	KW	242
Cooling Type	water	
Injection Type	Direct	
Air intake restriction, clean filter	kPa	2
Air intake restriction, dirty filter	kPa	5
Max standby power at rated RPM	KW/HP	239/325
Coolant capacity	Litres	63
Ampere rating	A	397
Oil Tank capacity	Litres	28
Electrical systems	V	24
Exhaust gas Temperature	°C	488

## Engine Illustration

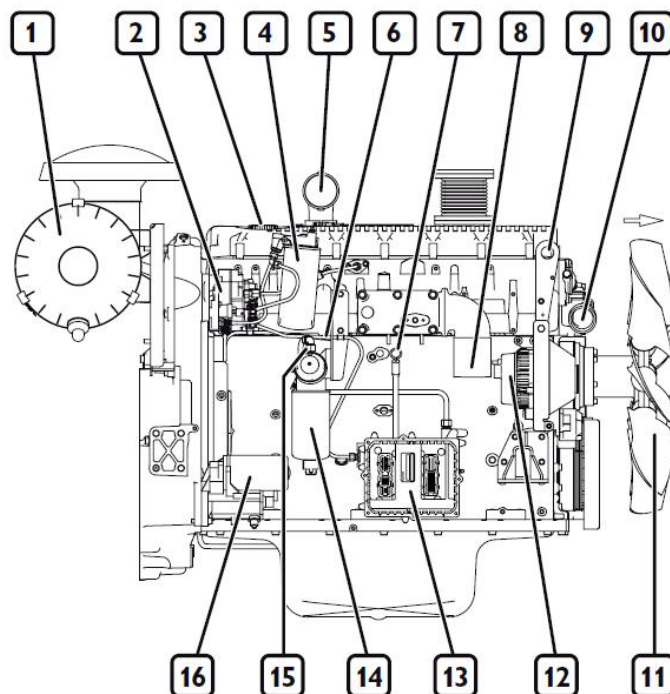


### Engine Description CURSOR87 TE1D

- 1 Coolant filler hole
- 2 Heat exchanger
- 3 Coolant outlet manifold from engine
- 4 Location of thermostatic valve
- 5 The exhaust gas discharge
- 6 Location of turbocharger
- 7 Turbocharging air outlet to after-cooler
- 8 Turbocharger air inlet
- 9 Lifting U-bolt
- 10 Manual lubrication oil extraction pump
- 11 Electrical engine pre-heating device
- 12 Oil Filter
- 13 Oil drainage nozzle
- 14 Manifold for return of coolant to the engine
- 15 Auxiliary member belt

### Engine Description CURSOR87 TE1D

- 1 Air filter
- 2 High-pressure pump
- 3 The oil feed hole
- 4 Fuel filter
- 5 Turbo charging air outlet to after-cooler
- 6 Fuel outlet connector to tank
- 7 Oil dipstick
- 8 Intake manifold inlet connection
- 9 Lifting U-bolt
- 10 Coolant outlet from the engine
- 11 Fan
- 12 Alternator
- 13 Electronic control unit
- 14 The fuel prefilter
- 15 Fuel inlet manifold from tank
- 16 Electrical starter



### Dimensions

Engine type	Length	Width	Height
<b>CURSOR87 TE1D</b>	mm 2042	1055	1394