GREEN POWER IVECO DIESEL ENGINE

1500 RPM	Type GP400F

The Engine with integrated water cooling

Engine: CURSOR13 TE3A

Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 12.88 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 attenation 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 CURSOR13 TE3A Engine.

Engine type		CURSOR13 TE3A
Speed	min^{-1} | rpm	1500
Frequency	Hz	50
Engine Power		
Prime power (PRP)	kVA | KW	400 | 320
Limited time running power (LTP)	kVA | KW	440 | 352
Fuel consumption		
100 % Load	l/hr	85.8
75 % Load	l/hr	68
50 % Load	l/hr	42.8

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.

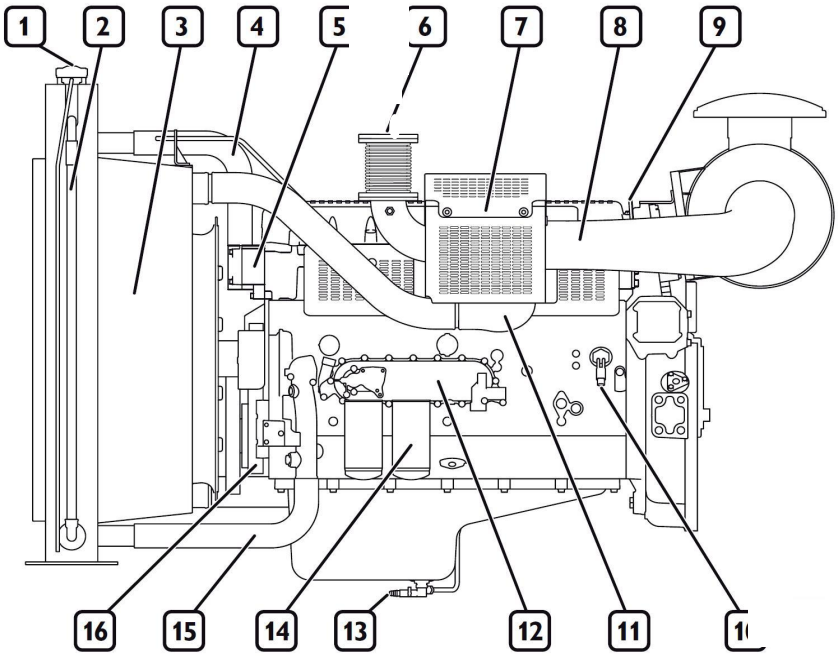
Scope of supply :

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		CURSOR13 TE3A
Numer of cylinder		6
Bore x Stroke Displacement Speed	mm l rpm	135 x 150 12.88 1500
Engine Power PRP	KW	320
Engine Power LTP	KW	352
Cooling Type		water
Injection Type		Direct
Air intake restriction, clean filter Air intake restriction, dirty filter	kPa kPa	2 5
Max standby power at rated RPM	KW/HP	352/479
Coolant capacity	Litres	68
Ampere rating	A	578
Oil Tank capacity	Litres	35
Electrical systems	V	24
Exhaust gas Temperature	^{o}C	479

Engine Illustration

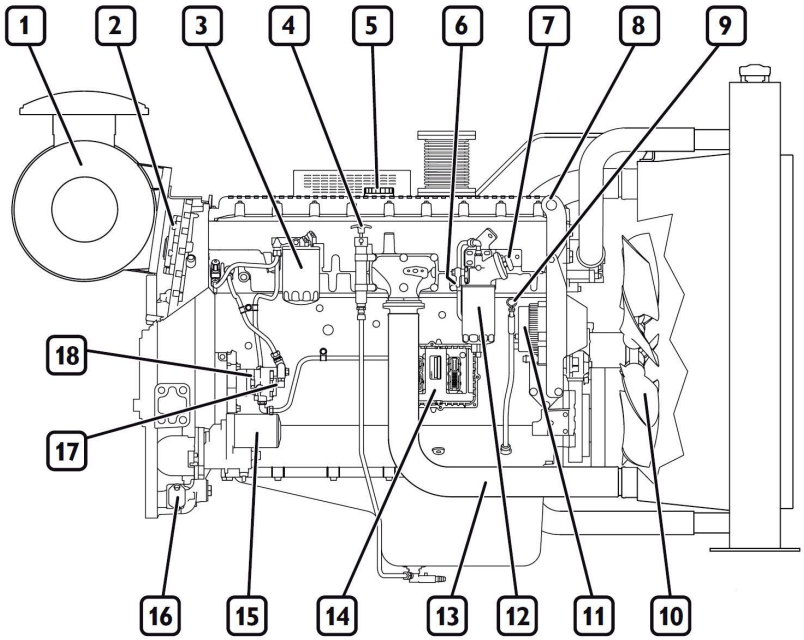


Engine Description
CURSOR13 TE3A

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

Engine Description
CURSOR13 TE3A

1 Air filter
2 Oil vapor filter
3 Fuel filter
4 Hand pump to extract oil
5 Oil feeder holes
6 Fuel inlet manifold from tank
7 Fuel pre-filter hand pump
8 Lifting U-bolt
9 Oil dipstick
10 Fan
11 Alternator
12 Fuel prefilter
13 Intake manifold inlet connection
14 Electronic control unit
15 Electrical starter
16 Flywheel crank insertion flange
17 Fuel outlet connector to tank
18 Fuel supply pump



Dimensions

Engine type		Length	Width	Height
CURSOR13 TE3A	mm	2324	1270	1546.5

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