

## GREEN POWER IVECO DIESEL ENGINE

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1500 RPM	Type GP30F
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The Engine with integrated water cooling

**Engine:** F32 AM1A

### Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 3.2 litre naturally aspirated 4 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

- 12 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 F32 AM1A Engine.

<b>Engine type</b>	F32 AM1A	
Speed	min <sup>-1</sup>   rpm	1500
Frequency	Hz	50
<b>Engine Power</b>		
Prime power (PRP)	kVA   kW	30   24
Limited time running power (LTP)	kVA   kW	33   26.4
<b>Fuel consumption</b>		
Standby power	l/hr	9.6
100 % Load	l/hr	8.3
75 % Load	l/hr	6
50 % Load	l/hr	4.3

### 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.

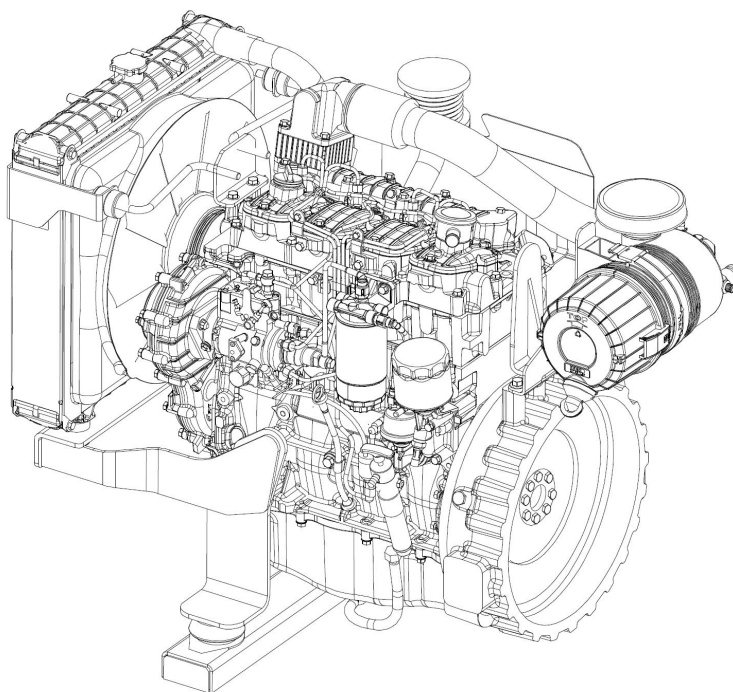
### Scope of supply :

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

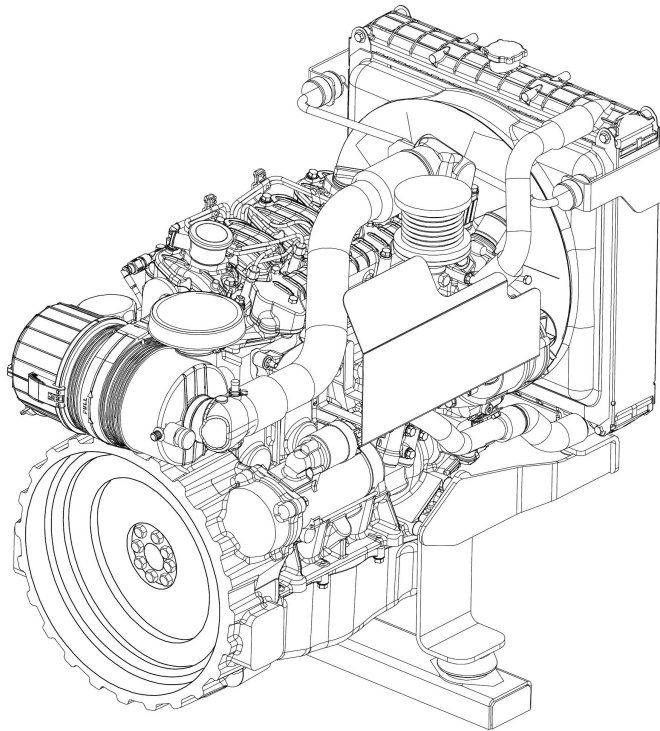
Engine type	<b>F32 AM1A</b>	
Numer of cylinder	<b>4</b>	
Bore x Stroke	mm	99 x 104
Displacement	l	3.2
Speed	rpm	1500
Engine Power PRP	KW	24
Engine Power LTP	KW	26.4
Cooling Type	water	
Injection Type	Direct	
Max allowable Back pressure	Kpa	5
Max Permitted air Intake restriction	Kpa	2
Max standby power at rated RPM	KW/HP	28/39
Coolant capacity	Litres	4.5
Battery	Ah	45
Oil Tank capacity	Litres	10.5
Electrical systems	V	12
Exhaust gas Temperature	°C	400

## Dimensions



Engine type		Length	Width	Height
<b>F32 AM1A</b>	mm	1122	578	841

# Engine Illustration



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