GREEN POWER IVECO DIESEL ENGINE

1500 RPM	Type GP40F

The Engine with integrated water cooling

Engine: F32 SM1A

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 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

- 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 SM1A Engine.

Engine type		F32 SM1A
Speed	min^{-1} | rpm	1500
Frequency	Hz	50
Engine Power		
Prime power (PRP)	kVA | KW	40 | 32
Limited time running power (LTP)	kVA | KW	44 | 35.2
Fuel consumption		
100 % Load	l/hr	10.6
75 % Load	l/hr	8
50 % Load	l/hr	5.6

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.

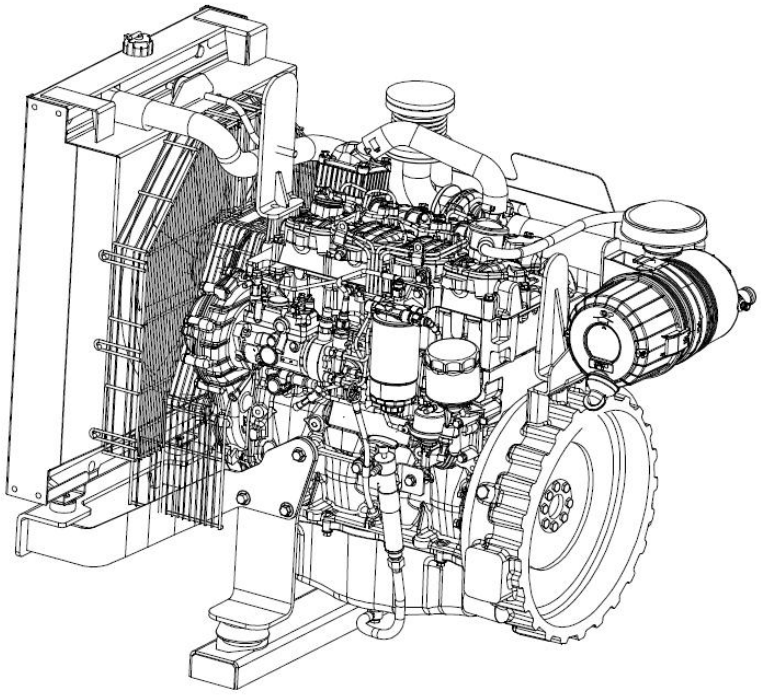
Scope of supply :

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

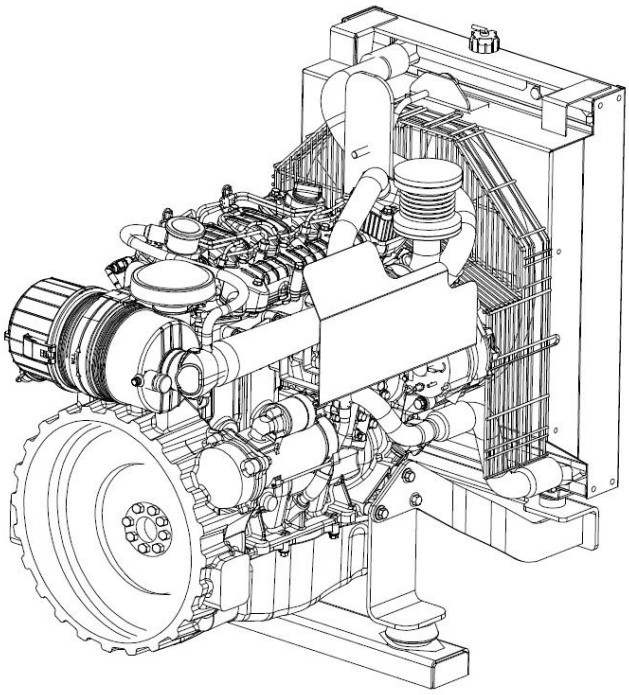
Engine type		F32 SM1A
Numer of cylinder		4
Bore x Stroke Displacement Speed	mm l rpm	99 x 104 3.2 1500
Engine Power PRP	KW	32
Engine Power LTP	KW	35.2
Cooling Type		water
Injection Type		Direct
Max allowable Back pressure Max Permitted air Intake restriction	Kpa Kpa	5 2
Max standby power at rated RPM	KW/HP	38/51
Coolant capacity	Litres	9.5
Battery	Ah	90
Oil Tank capacity	Litres	10.5
Electrical systems	V	12
Exhaust gas Temperature	^{o}C	523

Dimensions



Engine type		Length	Width	Height
F32 SM1A	mm	1200	600	930

Engine Illustration



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