

## GREEN POWER PERKINS DIESEL ENGINE

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1500 RPM	Type GP30P
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The Engine with integrated water cooling

**Engine:** 1103A-33G

### Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 3.3 litre naturally aspirated 3 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
- High inertia flywheel to SAE J620
- 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

- Mechanically governed cassette type fuel injection pump
- Split element fuel filter

### 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 Electronic shut Off Solenoid(ESOS) energised to run
- 12 volt starter motor and 12 volt 15 amp alternator with DC output
- Glow plug cold start aid and heater/starter switch
- Oil pressure and coolant temperature switches

## Rating Table : The Genset 1103A-33G Engine.

Engine type	1103A-33G	
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	g/KWh   l/hr	214   7.9
Prime power	g/KWh   l/hr	211   7.1
75 % of prime power	g/KWh   l/hr	214   5.4
50 % of prime power	g/KWh   l/hr	232   3.9

### PRP\* kVA/KW :

Prime power is available for an unlimited number of annual hours in variable load application. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

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

The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

### 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.

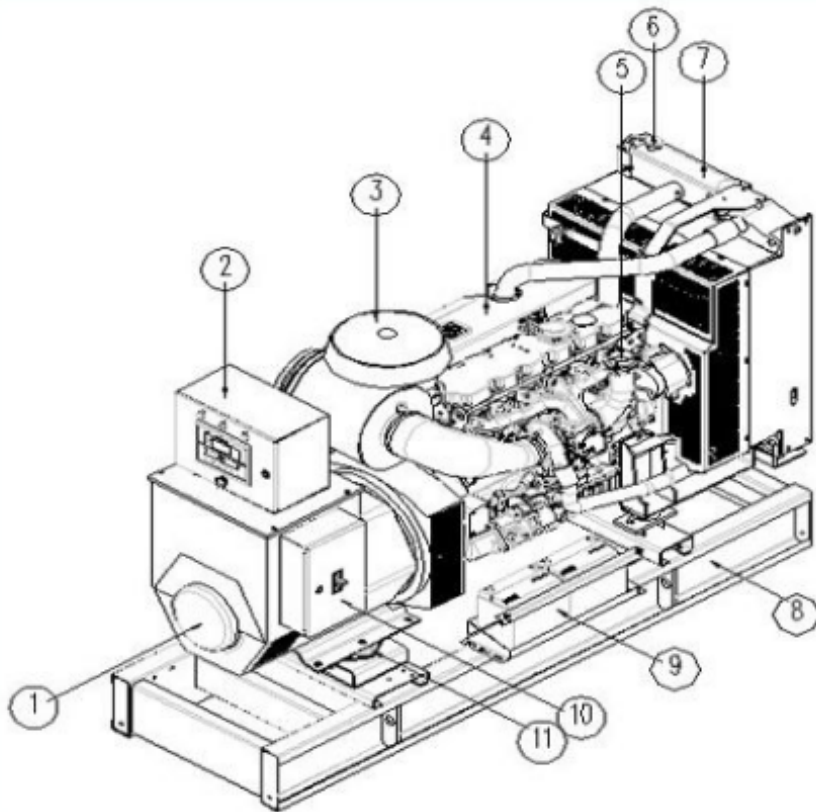
## Technical Data

Engine type	<b>1103A-33G</b>		
Numer of cylinder	<b>3</b>		
Bore x Stroke	mm	105 x 127	
Displacement	l	3.3	
Compression ratio	19.25:1		
Engine Power PRP	KW	24	
Engine Power LTP	KW	26.4	
Cooling Type	water		
Injection Type	Indirect		
Dry weight	Kg	412	
Air Intake	m <sup>3</sup> /min	2.16	
Max standby power at rated RPM	KW/HP	31/41.6	
Coolant capacity	Litres	10.2	
Battery	Ah	45	
Oil Tank capacity	Litres	8.3	
Exhaust gas flow	m <sup>3</sup> /min	5.8	
Exhaust gas Temperature	°C	520	

## Dimensions

Engine type	Length	Width	Height
<b>1103A-33G</b> mm	1000	629	951

## Engine Illustration



- 1. Alternator
- 2. Control cabinet
- 3. Air filter
- 4. Engine
- 5. Mounting flange of vent-pipe
- 6. Water inlet
- 7. Radiator

- 8. Base frame
- 9. Battery
- 10. Switch cabinet
- 11. Vibration isolator
- 12. Lifting lug
- 13. Fuel level meter
- 14. Fuel inlet

