

## GREEN POWER PERKINS DIESEL ENGINE

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1500 RPM	Type GP10P
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The Engine with integrated water cooling

**Engine:** 403A-11G

### Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 1.1 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 403A-11G Engine.

Engine type	403A-11G		
Speed	min <sup>-1</sup>   rpm	1500	
Frequency	Hz	50	
<b>Engine Power</b>			
Prime power (PRP)	kVA   kW	10	8
Limited time running power (LTP)	kVA   kW	11	8.8
<b>Fuel consumption</b>			
Standby power	g/KWh   l/hr	268	3.6
Prime power	g/KWh   l/hr	248	3.0
75 % of prime power	g/KWh   l/hr	257	2.3
50 % of prime power	g/KWh   l/hr	280	1.7

### 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.

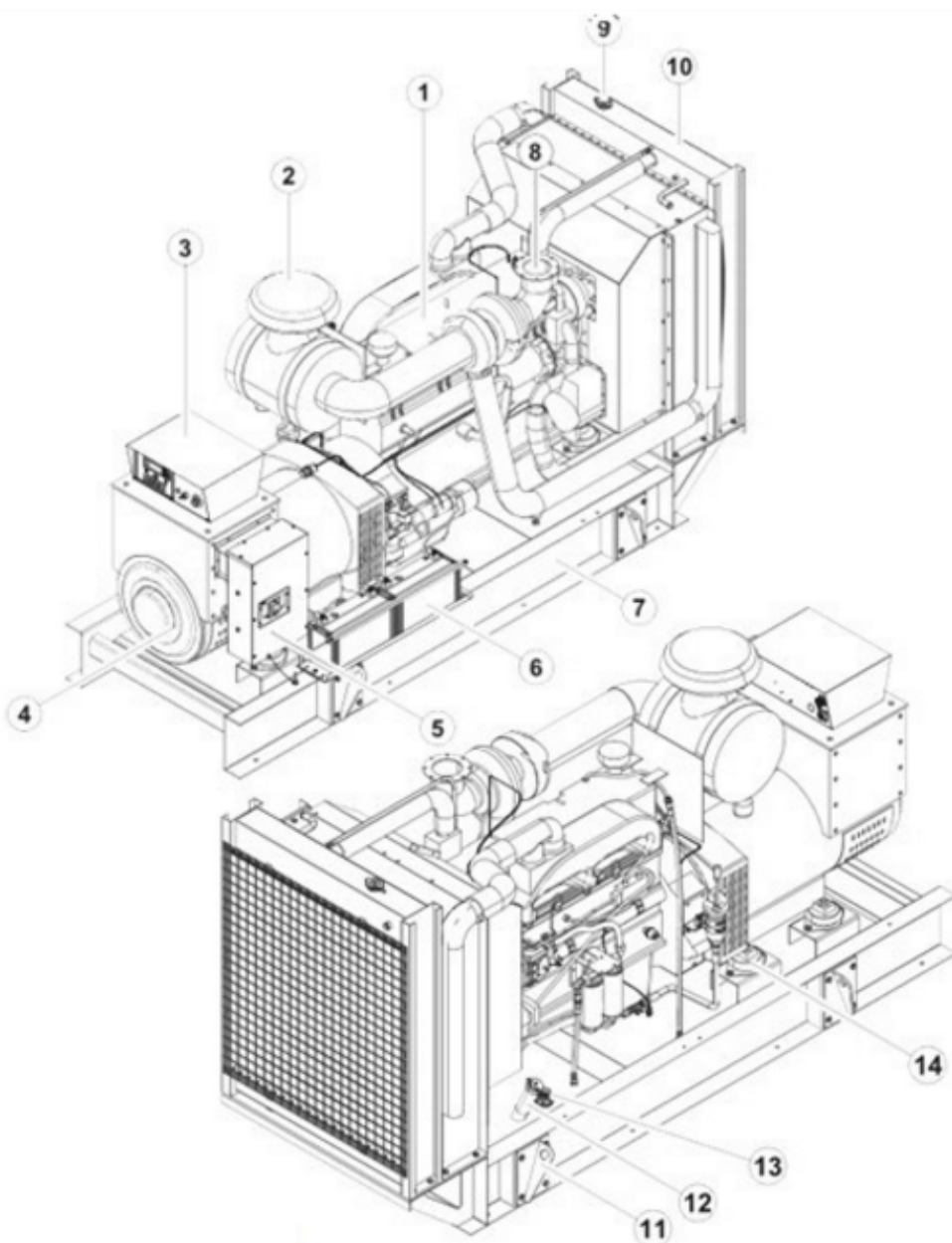
## Technical Data

Engine type	<b>403A-11G</b>		
Numer of cylinder	<b>3</b>		
Bore x Stroke	mm	77 x 81	
Displacement	l	1.131	
Compression ratio	23:1		
Engine Power PRP	KW	8	
Engine Power LTP	KW	8.8	
Cooling Type	water		
Injection Type	Indirect		
Max allowable Back pressure	Kpa	10.2	
Max Permitted air Intake restriction	Kpa	6.4	
Max standby power at rated RPM	KW/HP	9.5/12.9	
Coolant capacity	Litres	5.2	
Battery	Ah	25	
Oil Tank capacity	Litres	4.4	
Exhaust gas flow	m <sup>3</sup> /min	2.4	
Exhaust gas Temperature	°C	515	

## Dimensions

Engine type		Length	Width	Height
<b>403A-11G</b>	mm	775	438	702

## Engine Illustration



1. Engine
2. Air cleaner
3. Control cabinet
4. Alternator
5. Switch cabinet
6. Battery
7. Base frame
8. Mounting flange of vent-pipe
9. Water inlet
10. Radiator
11. Lifting lug
12. Fuel inlet
13. Fuel lever meter
14. Vibration isolator



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