

GREEN POWER PERKINS DIESEL ENGINE

1500 RPM	Type GP14P
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The Engine with integrated water cooling

Engine: 403A-15G1

Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 1.49 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-15G1 Engine.

Engine type	403A-15G1		
Speed	min ⁻¹ rpm	1500	
Frequency	Hz	50	
Engine Power			
Prime power (PRP)	kVA kW	14	11.2
Limited time running power (LTP)	kVA kW	15.4	12.3
Fuel consumption			
Standby power	g/KWh l/hr	251	4.1
Prime power	g/KWh l/hr	248	3.7
75 % of prime power	g/KWh l/hr	252	2.8
50 % of prime power	g/KWh l/hr	277	2.0

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.

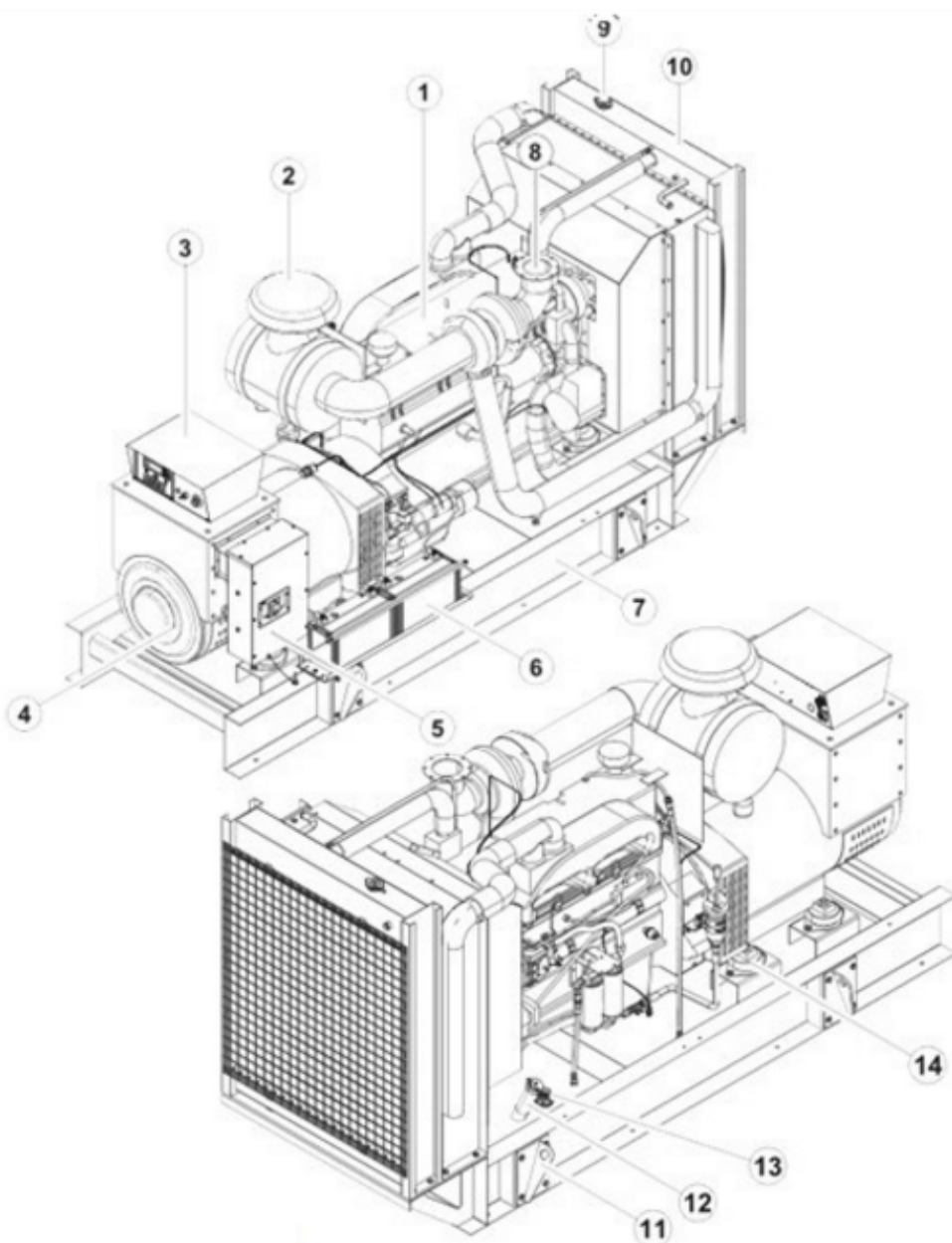
Technical Data

Engine type	403A-15G1		
Numer of cylinder	3		
Bore x Stroke	mm	84 x 90	
Displacement	l	1.49	
Compression ratio	22.5:1		
Engine Power PRP	KW	11.2	
Engine Power LTP	KW	12.3	
Cooling Type	water		
Injection Type	Indirect		
Dry weight	Kg	197	
Air Intake	m ³ /min	1.1	
Max standby power at rated RPM	KW/HP	13.5/18.1	
Coolant capacity	Litres	6	
Battery	Ah	25	
Oil Tank capacity	Litres	6	
Exhaust gas flow	m ³ /min	2.9	
Exhaust gas Temperature	°C	490	

Dimensions

Engine type	Length	Width	Height
403A-15G1	mm	820	469

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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