GREEN POWER PERKINS DIESEL ENGINE

1500 RPM	Type GP910P

The Engine with integrated water cooling

Engine: 4008-TAG1A

Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 30.6 litre naturally aspirated 8 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 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

- 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 4008-TAG1A Engine.

Engine type		4008-TAG1A
Speed	min^{-1} | rpm	1500
Frequency	Hz	50
Engine Power		
Prime power (PRP)	kVA | KW	910 | 728
Limited time running power (LTP)	kVA | KW	1002 | 802
Fuel consumption		
Standby power	g/KWh | l/hr	210 | 218
100 % of Prime power	g/KWh | l/hr	206 | 195
75 % of Prime power	g/KWh | l/hr	201 | 143
50 % of Prime power	g/KWh | l/hr	207 | 98

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.

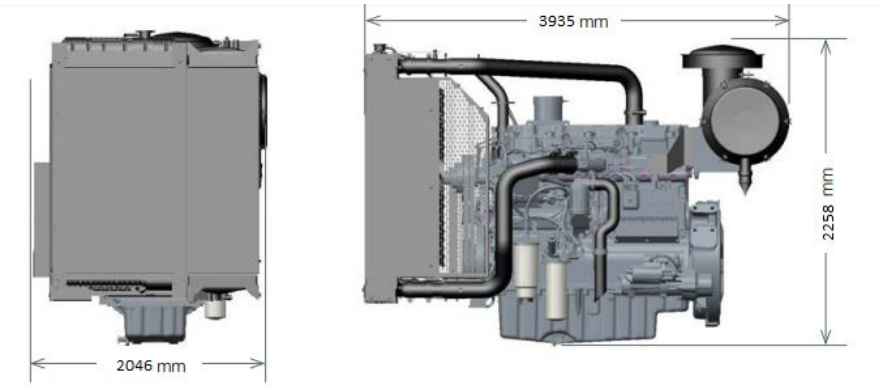
Scope of supply :

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

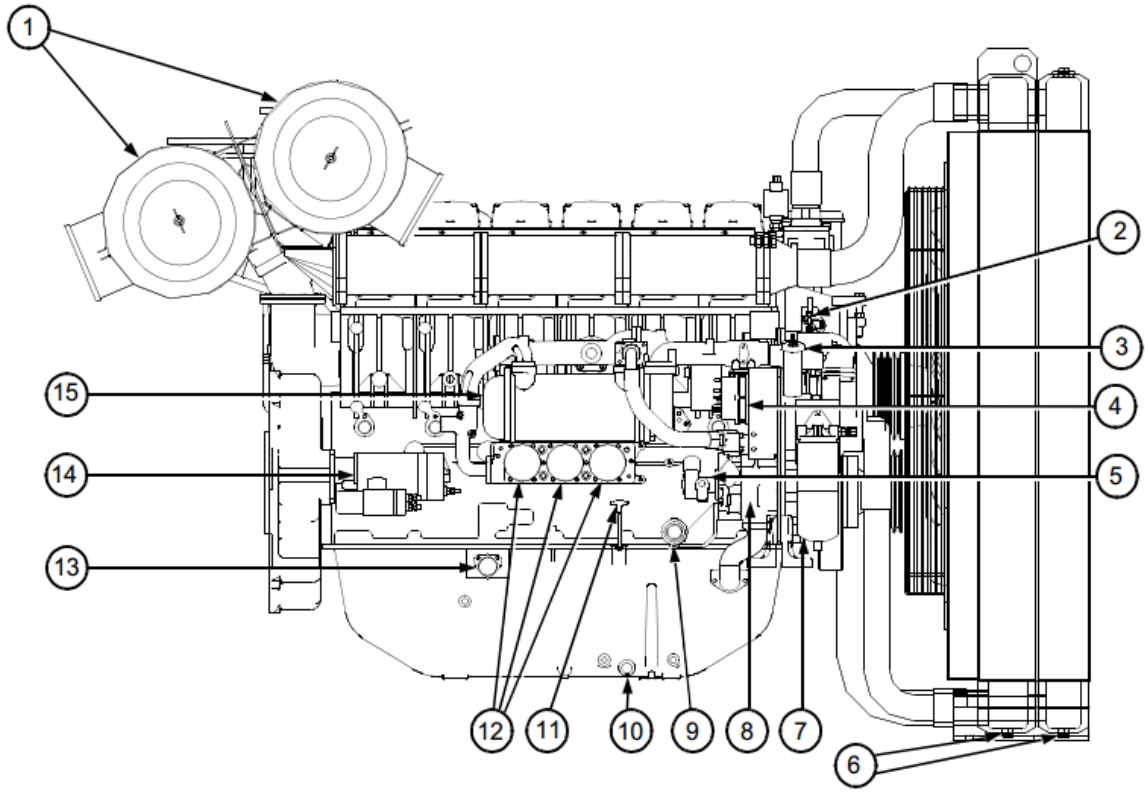
Engine type		4008-TAG1A
Numer of cylinder		8
Bore x Stroke Displacement Compression ratio	mm l	160 x 190 30.6 13.6:1
Engine Power PRP	KW	728
Engine Power LTP	KW	802
Cooling Type		water
Injection Type		Direct
Dry weight	Kg	4360
Max standby power at rated RPM	KW/HP	839/1125
Coolant capacity	Litres	162
Battery	Ah	1600
Oil Tank capacity	Litres	165.6
Exhaust gas flow	m^3/min	166
Exhaust gas Temperature	^oC	497

Dimensions



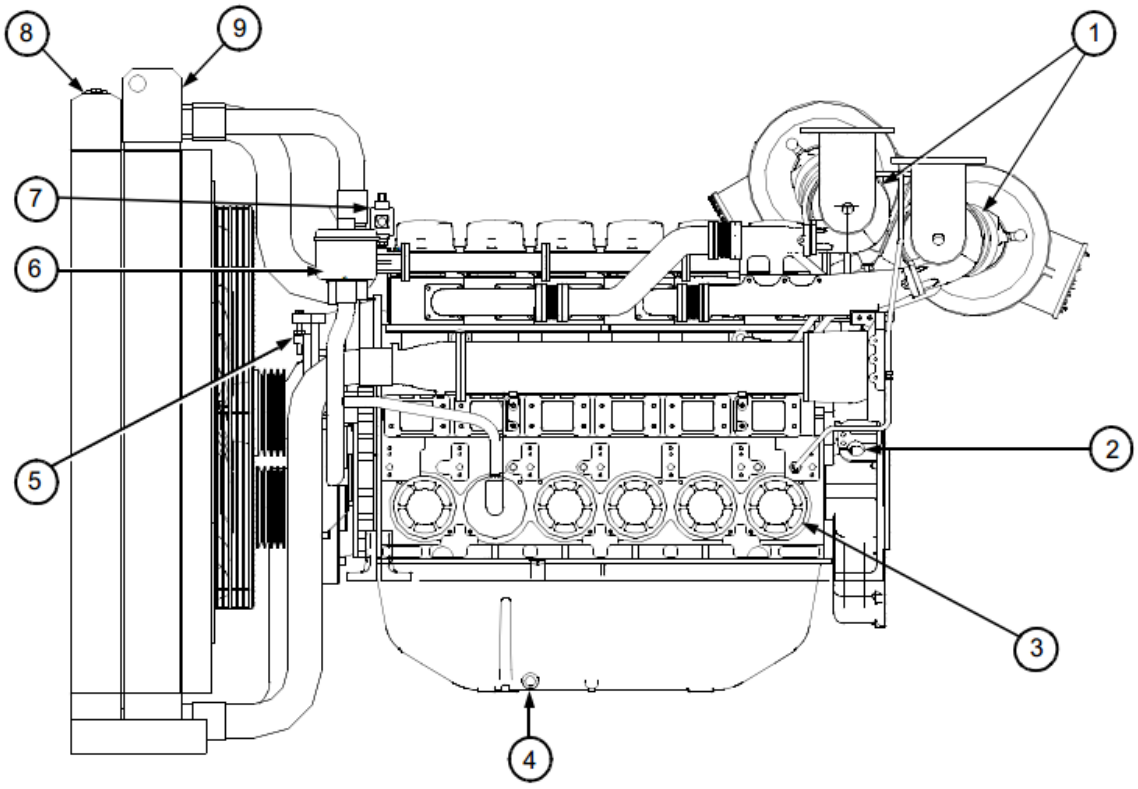
Engine type		Length	Width	Height
4008-TAG1A	mm	3935	2046	2258

Engine Illustration



Engine Description
4008-TAG1A

1 Twin air filters
2 Governor lever
3 Filler cap for the lubricating oil
4 24 Volt alternator
5 Fuel lift pump
6 Radiator drain plugs
7 Fuel filter/water separator
8 Engine oil pump
9 Fuel hand prime pump
10 Drain plug for the lubricating
11 Lubricating oil dipstick
12 Lubricating oil filters
13 Starter relay
14 24 Volt Starter motor
15 Lubricating oil cooler



Engine Description
4008-TAG1A

1 Twin turbochargers
2 View hole for timing mark
3 Crankshaft inspection cover
4 Sump drain plug
5 Drive belt tension screw
6 Engine breather
7 Engine protection switch
8 Air to air charge cooler
9 Radiator

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