

GREEN POWER PERKINS DIESEL ENGINE

1500 RPM	Type GP20P

The Engine with integrated water cooling

Engine: 404A-22G1

Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 2.2 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
- 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 404A-22G1 Engine.

Engine type		404A-22G1
Speed	min⁻¹ rpm	1500
Frequency	Hz	50
Engine Power		
Prime power (PRP)	kVA KW	20 16
Limited time running power (LTP)	kVA KW	22 17.6
Fuel consumption		
Standby power	g/KWh l/hr	244 6.1
Prime power	g/KWh l/hr	237 5.3
75 % of prime power	g/KWh	238 4.0
50 % of prime power	g/KWh	258 2.9

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

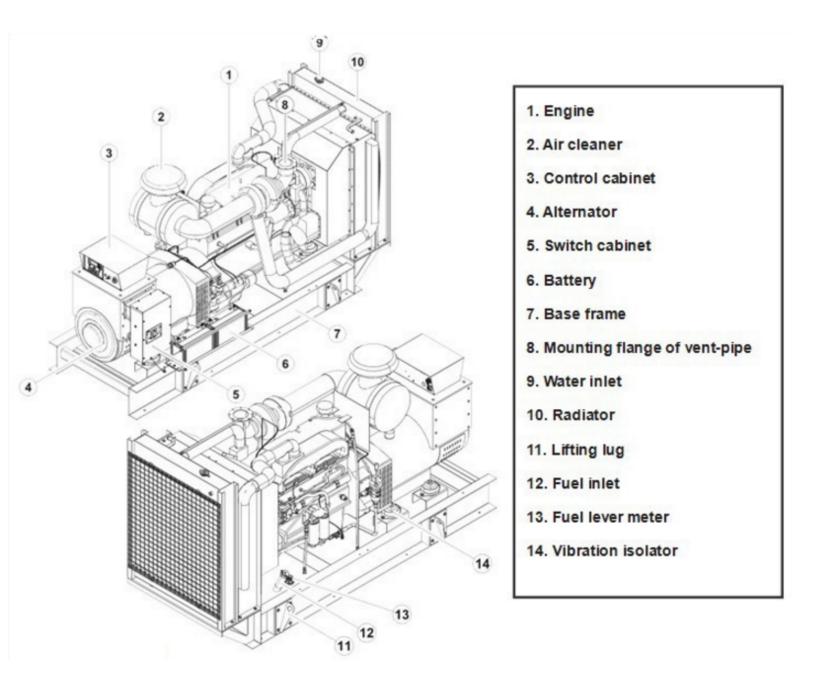
Engine type		404A-22G1
Numer of cylinder		4
Bore x Stroke Displacement Compression ratio	mm I	84 x 100 2.2 23.3:1
Engine Power PRP	KW	16
Engine Power LTP	KW	17.6
Cooling Type		water
Injection Type		Indirect
Dry weight	Kg	242
Air Intake	m³/min	1.45
Max standby power at rated RPM	KW/HP	20.6/27.6
Coolant capacity	Litres	7
Battery	Ah	32
Oil Tank capacity	Litres	10.6
Exhaust gas flow	m³/min	3.9
Exhaust gas Temperature	°C	505

Dimensions

Engine type		Length	Width	Height	
404A-22G1	mm	946	497	841	

Engine Illustration







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