

GREEN POWER PERKINS DIESEL ENGINE

1500 RPM	Type GP100P
-----------------	--------------------

The Engine with integrated water cooling

Engine: 1104C-44TAG2

Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 4.4 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 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 1104C-44TAG2 Engine.

Engine type	1104C-44TAG2		
Speed	min ⁻¹ rpm	1500	
Frequency	Hz	50	
Engine Power			
Prime power (PRP)	kVA kW	100	80
Limited time running power (LTP)	kVA kW	110	88
Fuel consumption			
110 % Load	g/KWh l/hr	203	24.9
100 % Load	g/KWh l/hr	203	22.6
75 % Load	g/KWh l/hr	205	17.1
50 % Load	g/KWh l/hr	201	11.8

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.

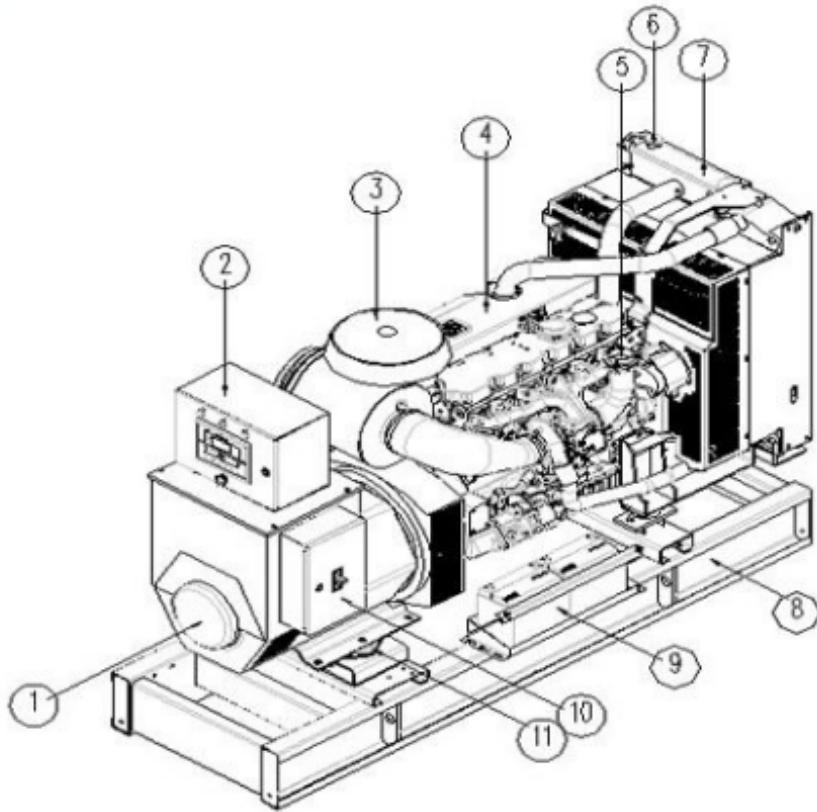
Technical Data

Engine type	1104C-44TAG2		
Numer of cylinder	4		
Bore x Stroke	mm	105 x 127	
Displacement	l	4.4	
Compression ratio	18.2:1		
Engine Power PRP	KW	80	
Engine Power LTP	KW	88	
Cooling Type	water		
Injection Type	Indirect		
Dry weight	Kg	524	
Air Intake	m ³ /min	6.27	
Max standby power at rated RPM	KW/HP	98/133.3	
Coolant capacity	Litres	12.6	
Battery	Ah	160	
Oil Tank capacity	Litres	8.4	
Exhaust gas flow	m ³ /min	16.3	
Exhaust gas Temperature	°C	543	

Dimensions

Engine type		Length	Width	Height
1104C-44TAG2	mm	1259	721	966

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

