



1500 RPM Type GP45P

The Engine with integrated water cooling

**Engine:** 1103A-33TG1

### **Technical description**

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 3.3 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 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 1103A-33TG1 Engine.

Engine type	1103A-33TG1		
Speed	min <sup>-1</sup> rpm	1500	
Frequency	Hz	50	
Engine Power			
Prime power (PRP)	kVA	45   36	
Limited time running power (LTP)	kVA	49.5 39.6	
Fuel consumption			
Standby power	g/KWh l/hr	221 12.0	
Prime power	g/KWh l/hr	215 10.7	
75 % of prime power	g/KWh l/hr	218 8.2	
50 % of prime power	g/KWh l/hr	227 5.7	

## 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**

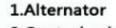
Engine type		1103A-33TG1
Numer of cylinder		3
Bore x Stroke Displacement Compression ratio	mm I	105 x 127 3.3 17.25:1
Engine Power PRP	KW	36
Engine Power LTP	KW	39.6
Cooling Type		water
Injection Type		Indirect
Dry weight	Kg	420
Air Intake	m³/min	3.7
Max standby power at rated RPM	KW/HP	53.9/72.3
Coolant capacity	Litres	10.2
Battery	Ah	90
Oil Tank capacity	Litres	8.3
Exhaust gas flow	m³/min	8.8
Exhaust gas Temperature	°C	537

# Dimensions

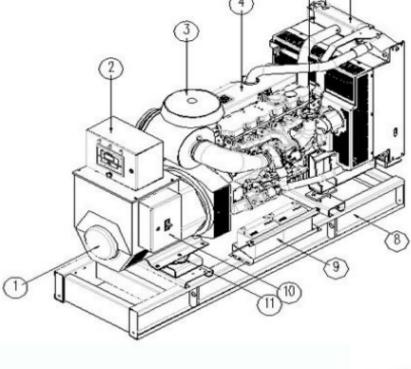
Engine type	Length	Width	Height	
1103A-33TG1 mm	1049	634	951	

# Engine Illustration





- 2.Control cabinet
- 3.Air filter
- 4.Engine
- Mounting flange of vent-pipe
- 6.Water inlet
- 7.Radiator



8.Base frame

9.Battery

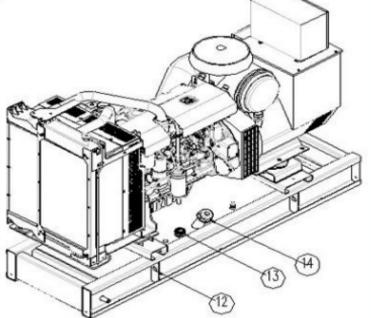
10.Switch cabinet

11. Vibration isolator

12.Lifting lug

13.Fuel level meter

14.Fuel inlet





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