

## GREEN POWER PERKINS DIESEL ENGINE

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1500 RPM	Type GP400P
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The Engine with integrated water cooling

**Engine:** 2206A-E13TAG3

### Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 12.5 litre naturally aspirated 6 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 2206A-E13TAG3 Engine.

<b>Engine type</b>	2206A-E13TAG3		
Speed	min <sup>-1</sup>   rpm	1500	
Frequency	Hz	50	
<b>Engine Power</b>			
Prime power (PRP)	kVA   kW	400	320
Limited time running power (LTP)	kVA   kW	440	352
<b>Fuel consumption</b>			
Standby power	g/KWh   l/hr	194	90
100 % of Prime power	g/KWh   l/hr	197	81
75 % of Prime power	g/KWh   l/hr	199	62
50 % of Prime power	g/KWh   l/hr	202	42

### 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.

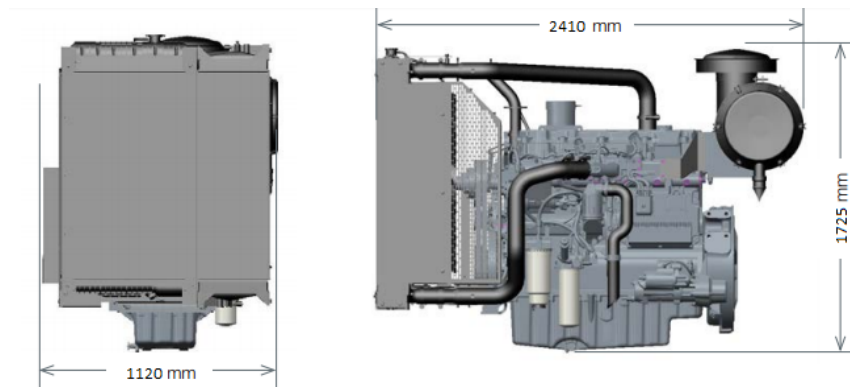
### Scope of supply :

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

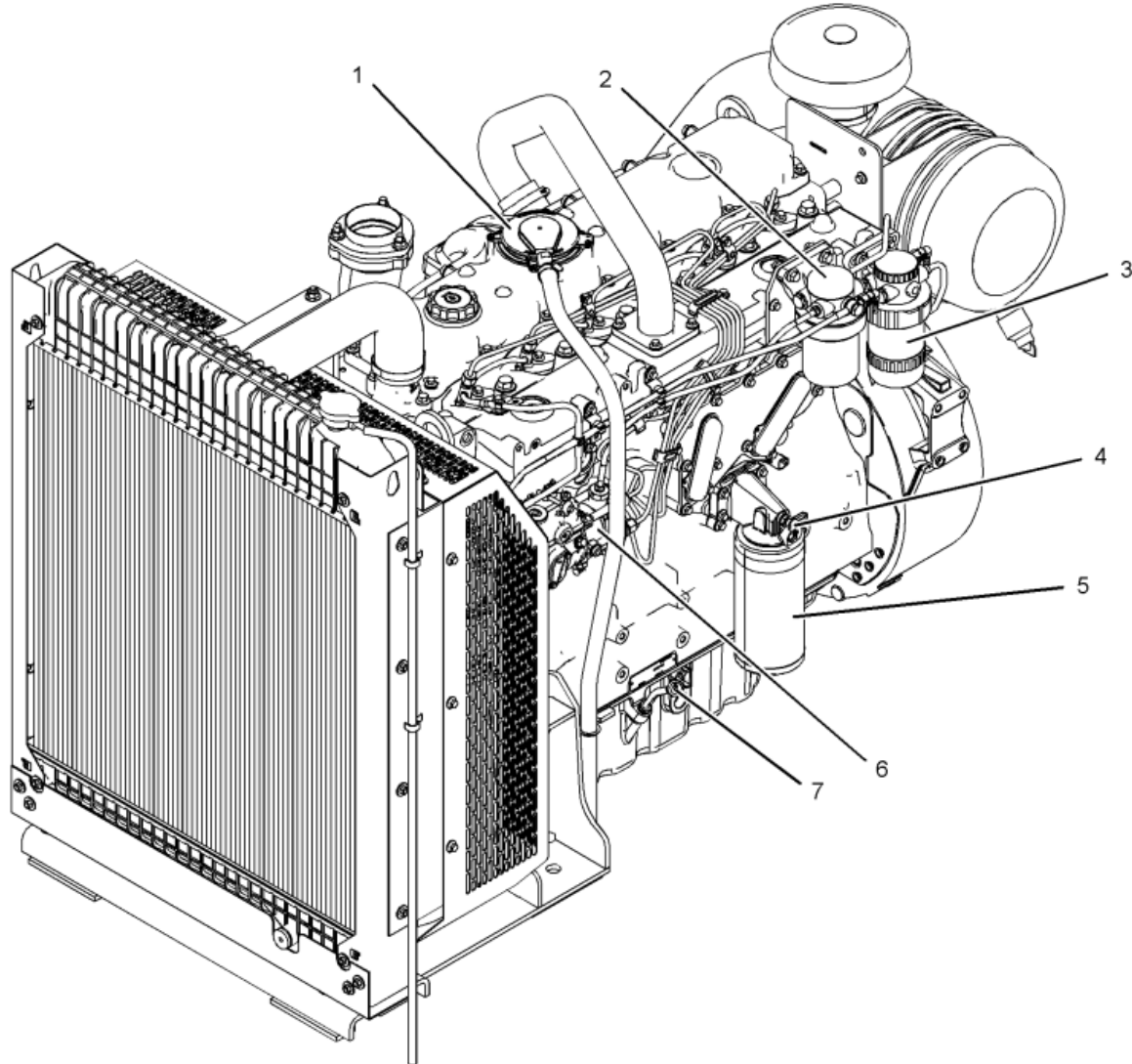
Engine type	<b>2206A-E13TAG3</b>	
Numer of cylinder	<b>6</b>	
Bore x Stroke	mm	130 x 157
Displacement	l	12.5
Compression ratio	16.3:1	
Engine Power PRP	KW	320
Engine Power LTP	KW	352
Cooling Type	water	
Injection Type	Indirect	
Dry weight	Kg	1478
Max standby power at rated RPM	KW/HP	412/553
Coolant capacity	Litres	51.4
Battery	Ah	630
Oil Tank capacity	Litres	40
Exhaust gas flow	m <sup>3</sup> /min	72.5
Exhaust gas Temperature	°C	630

## Dimensions

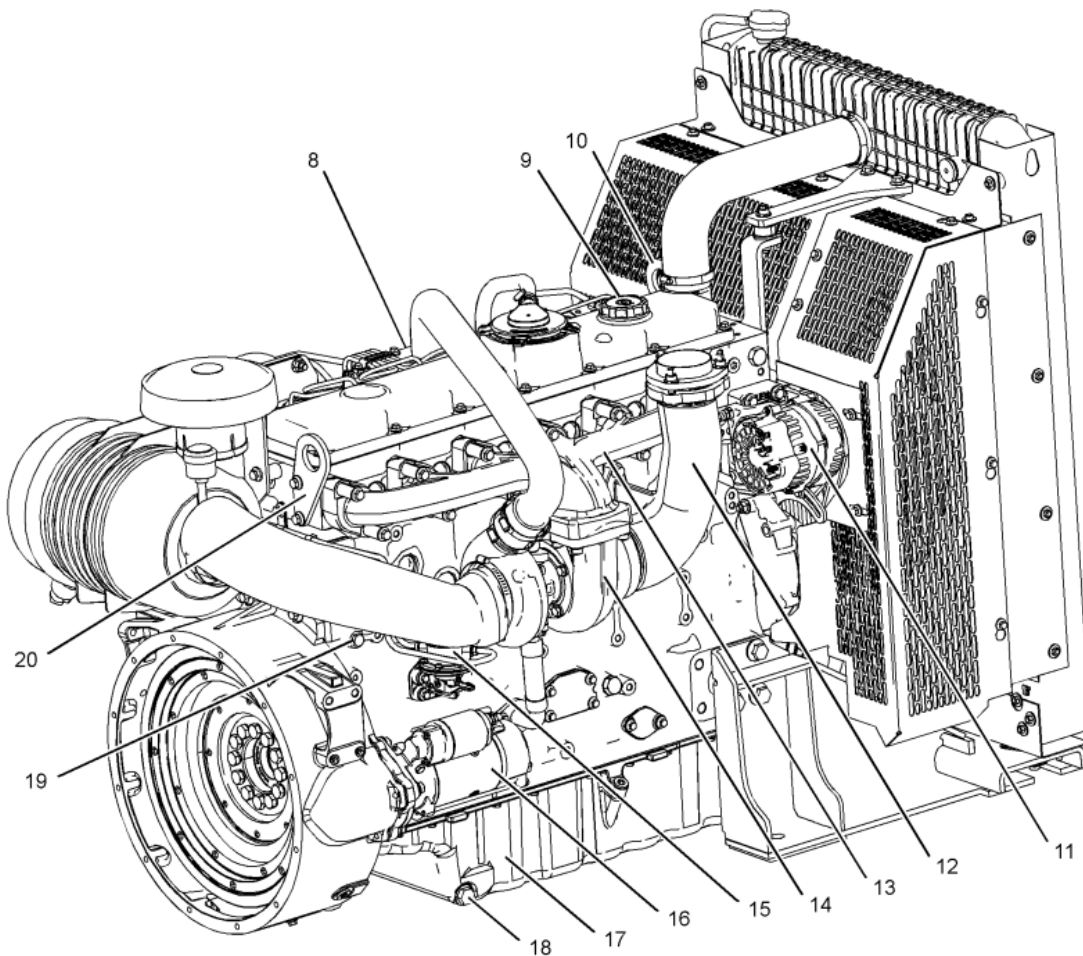


Engine type	Length	Width	Height
<b>2206A-E13TAG3</b> mm	2410	1120	1725

Engine Illustration



- Engine Description**  
**2206A-E13TAG3**
- 1 Crankcase breather
  - 2 Secondary fuel filters
  - 3 Primary fuel filter
  - 4 Oil sampling valve
  - 5 Oil filter
  - 6 Fuel injection pump
  - 7 Oil gauge (dipstick)



### Engine Description

2206A-E13TAG3

- 8 Air intake
- 9 Oil filler
- 10 Front lifting eye
- 11 Alternator
- 12 Exhaust elbow
- 13 Exhaust manifold
- 14 Turbocharger
- 15 Fuel priming pump
- 16 Starting motor
- 17 Oil pan
- 18 Drain plug (oil)
- 19 Drain plug (coolant)
- 20 Rear lifting eye



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