

## GREEN POWER PERKINS DIESEL ENGINE

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1500 RPM	Type GP230P
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The Engine with integrated water cooling

**Engine:** 1506A-E88TAG2

### Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 8.8 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 1506A-E88TAG2 Engine.

<b>Engine type</b>	1506A-E88TAG2	
Speed	min <sup>-1</sup>   rpm	1500
Frequency	Hz	50
<b>Engine Power</b>		
Prime power (PRP)	kVA   kW	230   184
Limited time running power (LTP)	kVA   kW	257   202
<b>Fuel consumption</b>		
110 % Load	l/hr	53.0
100 % Load	l/hr	48.5
75 % Load	l/hr	38.5
50 % Load	l/hr	28.5

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.

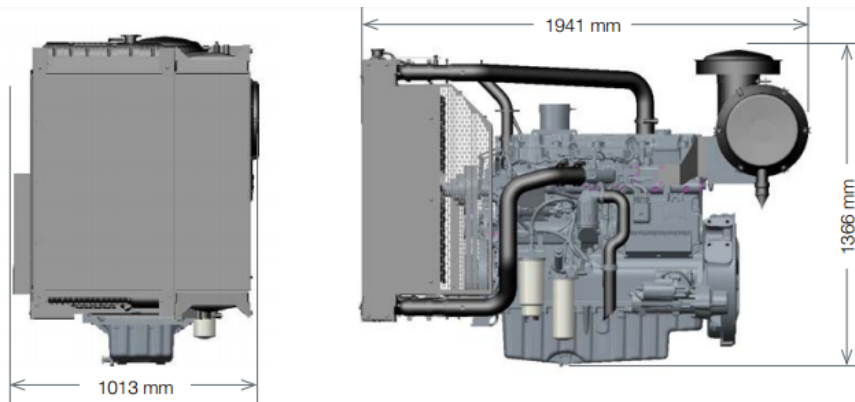
Scope of supply :

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

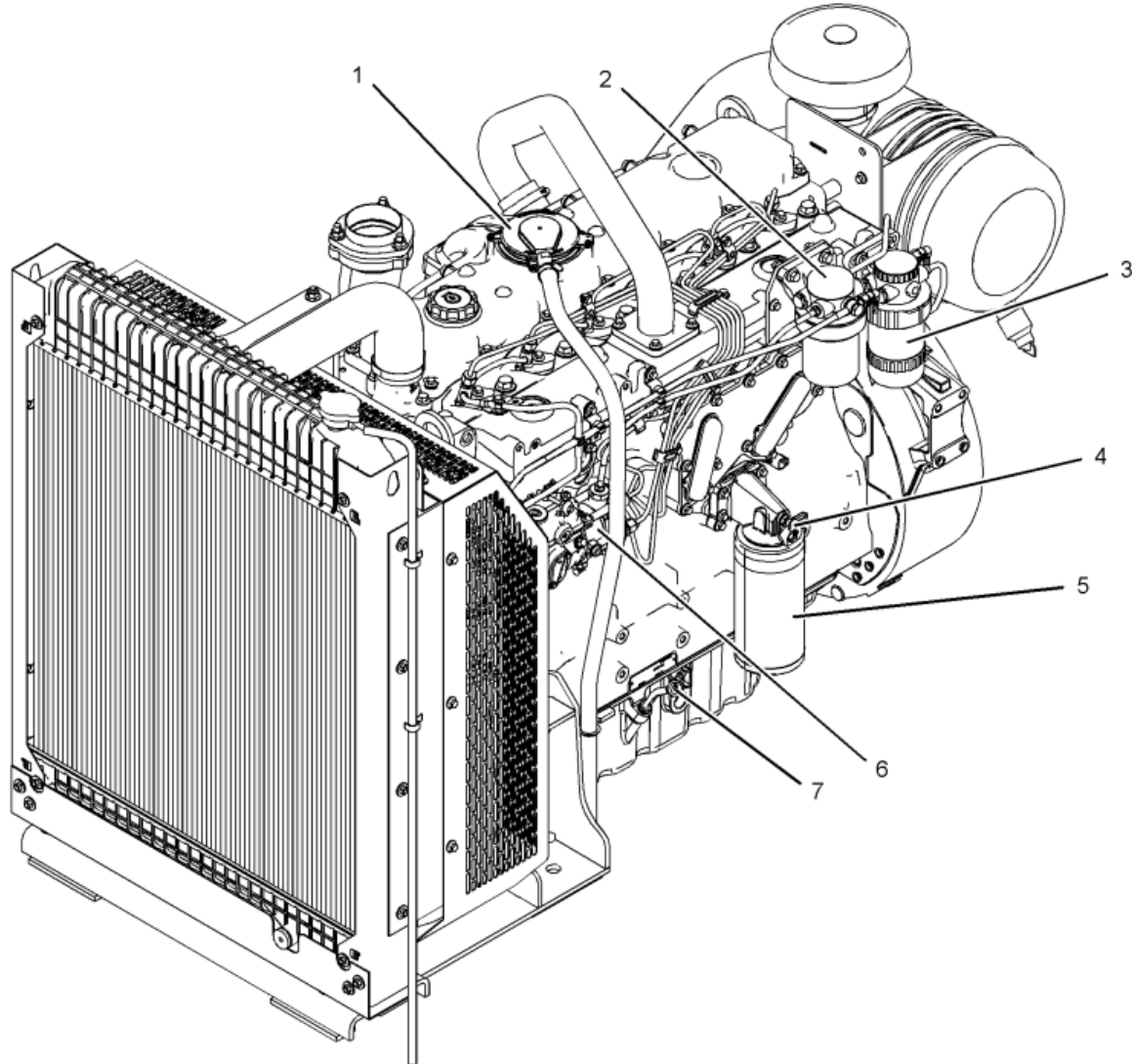
Engine type	<b>1506A-E88TAG2</b>	
Numer of cylinder	<b>6</b>	
Bore x Stroke	mm	112 x 149
Displacement	l	8.8
Compression ratio	16.1:1	
Engine Power PRP	KW	184
Engine Power LTP	KW	202
Cooling Type	water	
Injection Type	Indirect	
Dry weight	Kg	1135
Max. exhaust backpressure	kPa	10
Max standby power at rated RPM	KW/HP	233.9/314
Coolant capacity	Litres	29.6
Battery	Ah	400
Oil Tank capacity	Litres	41.0
Exhaust gas flow	m <sup>3</sup> /min	42.5
Exhaust gas Temperature	°C	531

## Dimensions

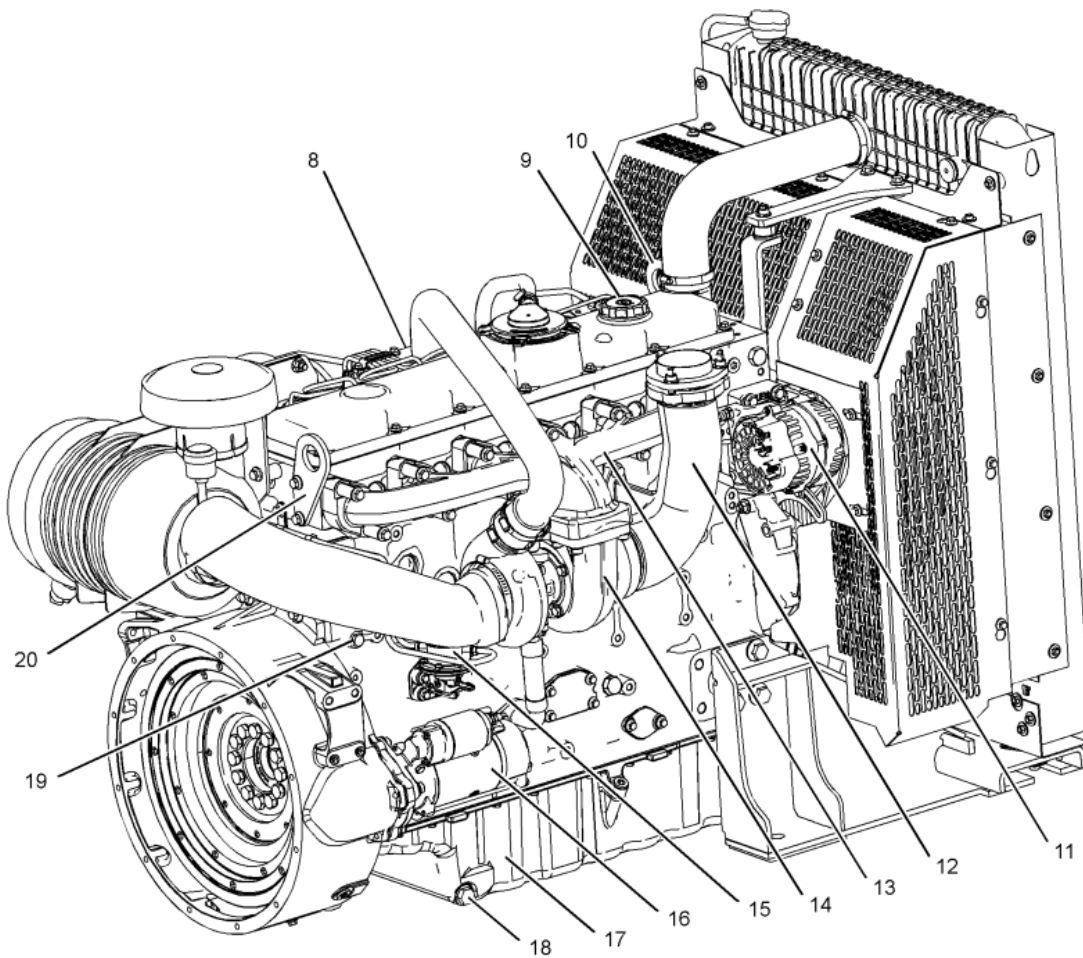


Engine type	Length	Width	Height
<b>1506A-E88TAG2</b> mm	1941	1013	1366

Engine Illustration



- Engine Description**  
**1506A-E88TAG2**
- 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

1506A-E88TAG2

- 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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