

GREEN POWER PERKINS DIESEL ENGINE

1500 RPM	Type GP1850P
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The Engine with integrated water cooling

Engine: 4016-TAG1A

Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 61.12 litre naturally aspirated 16 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

- 24 volt Electronic shut Off Solenoid(ESOS) energised to run
- 24 volt starter motor and 24 volt alternator with integral regulator DC output
- Glow plug cold start aid and heater/starter switch
- Oil pressure and coolant temperature switches

Rating Table : The Genset 4016-TAG1A Engine.

Engine type	4016-TAG1A		
Speed	min ⁻¹ rpm	1500	
Frequency	Hz	50	
Engine Power			
Prime power (PRP)	kVA kW	1850	1480
Limited time running power (LTP)	kVA kW	2035	1628
Fuel consumption			
110 % Load	g/KWh l/hr	207	424
100 % Load	g/KWh l/hr	205	383
75 % Load	g/KWh l/hr	198	277
50 % Load	g/KWh l/hr	198	185

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.

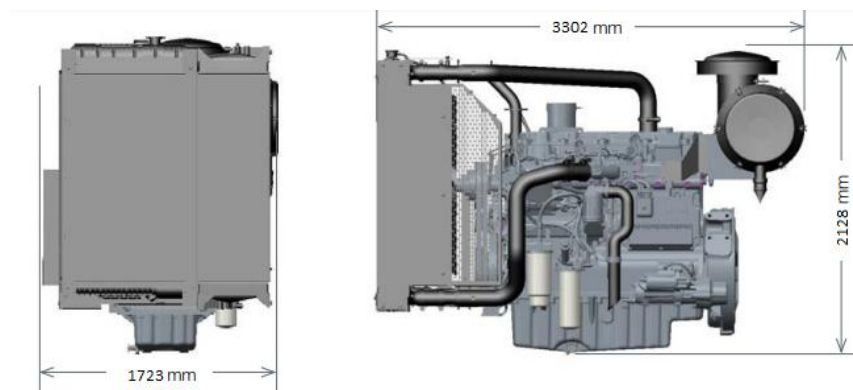
Scope of supply :

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

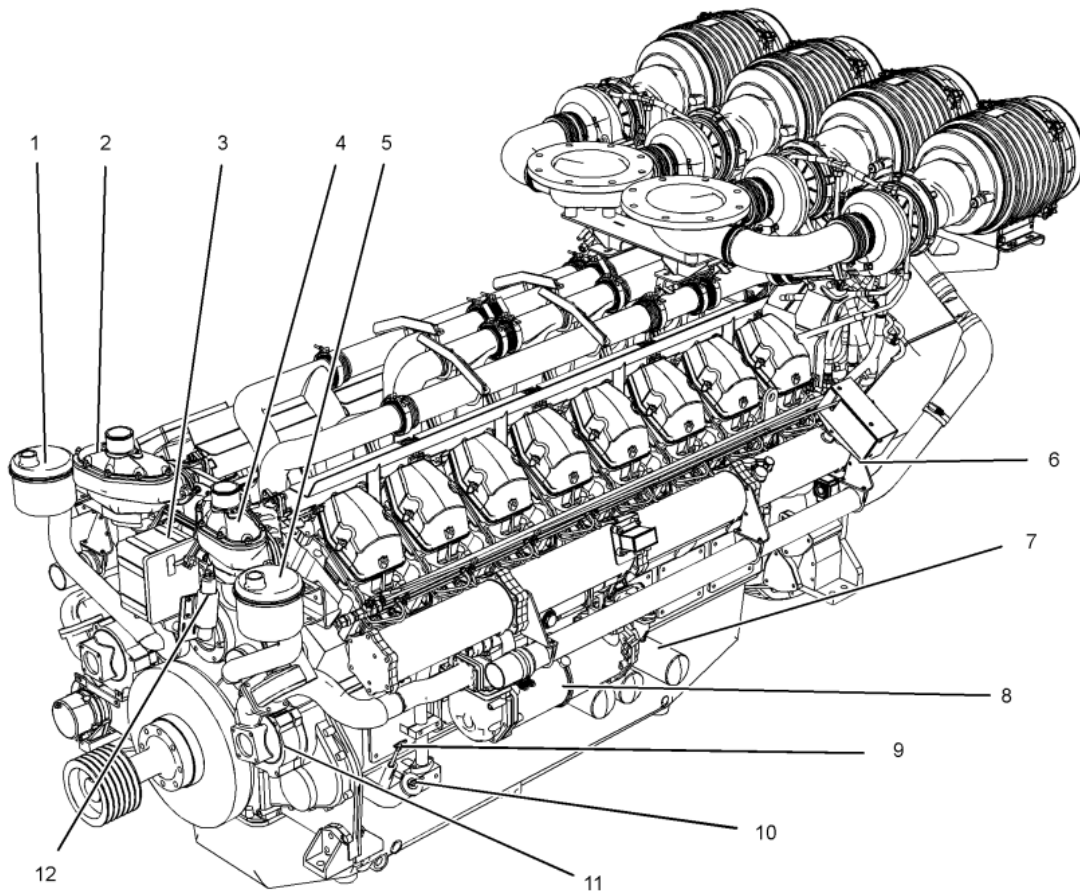
Engine type	4016-TAG1A	
Numer of cylinder	16	
Bore x Stroke	mm	160 x 190
Displacement	l	61.12
Compression ratio	13.6:1	
Engine Power PRP	KW	1480
Engine Power LTP	KW	1628
Cooling Type	water	
Injection Type	Direct	
Dry weight	Kg	5570
Standby Power Rating	KW/HP	1741/2334
Coolant capacity	Litres	316
Battery	Ah	3150
Oil Tank capacity	Litres	213
Exhaust gas flow	m ³ /min	353
Exhaust gas Temperature	°C	460

Dimensions



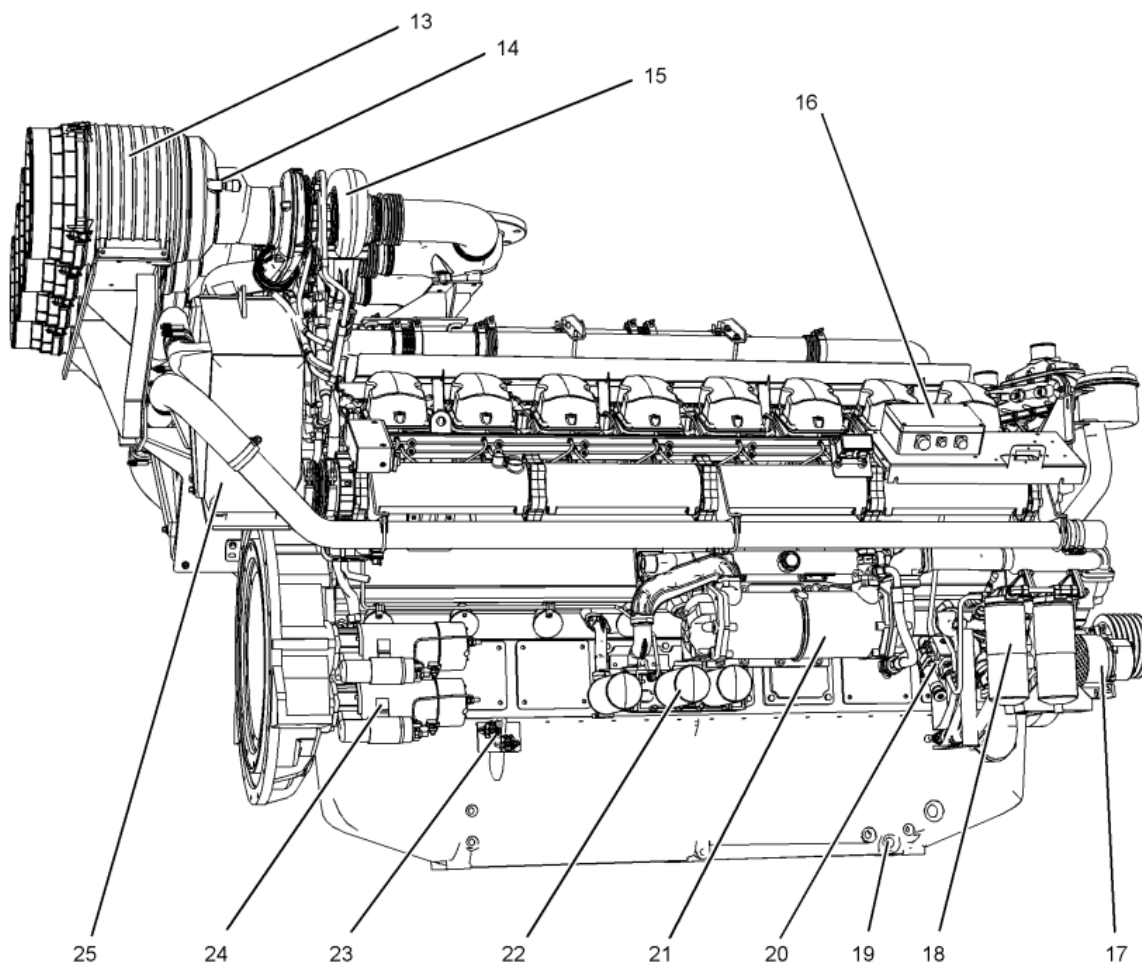
Engine type	Length	Width	Height
4016-TAG1A	mm 3302	1723	2128

Engine Illustration



Engine Description 4016-TAG1A

- 1 Engine crankcase breather
- 2 Thermostat housing
- 3 Electronic governor actuator
- 4 Thermostat housing
- 5 Engine crankcase breather
- 6 Air shutoff valve
- 7 3x Oil filters
- 8 Oil cooler
- 9 Oil level gauge (Dipstick)
- 10 Oil filler
- 11 Water pump
- 12 Stop solenoid



Engine Description 4016-TAG1A

- 13 Air cleaner
- 14 Restriction indicator for air cleaner
- 15 Turbocharger
- 16 Electronic governor control unit
- 17 Alternator
- 18 Fuel filters
- 19 Oil drain plug
- 20 Fuel priming pump
- 21 Oil cooler
- 22 3x Oil filters
- 23 Starter relay
- 24 Starting motor
- 25 Aftercooler



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