



1500 RPM	Type GP460VO

The Engine with integrated water cooling

Engine: TAD1640GE

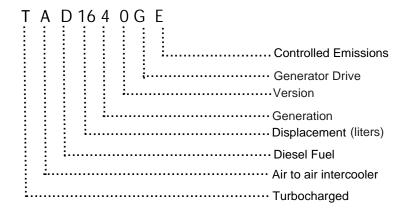
#### **Technical description**

- Cast iron cylinder block with optimum distribution of forces without the block being unnecessarily heavy
- Piston cooling for low piston temperature and reduced ring temperature
- Tapered connecting rods for increased piston lifetime
- Crankshaft induction hardened bearing surfaces and fillets with seven bearings for moderate load on main and big end bearings
- Replaceable valve guides and valve seats
- Keystone top compression rings for long service life
- Viscous type crankshaft vibration dampers to withstand single bearing alternator torsional vibrations
- Over head camshaft and four valves per cylinder
- Case hardened and Nitrocarburized transmission gears for heavy duty operation
- Wet and replaceable cylinder liners

#### **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

#### Model Designation





#### Control Panel

#### Manual or Automatic start control panel

- Manual or automatic remote boot controller, selector switch for Off, Man and Auto with the key.
- Complete motor protection functions with alarms visualized via LEDs in the front.
- The control unit 6 is set via DIP switches in the rear part of the case.
- Standard circuit breaker and differential relay.

#### Rating Table: The Genset TAD1640GE Engine

Engine type		TAD1640GE
Speed	min <sup>-1</sup> rpm	1500
Frequency	Hz	50
Engine Power		
Prime power (PRP)	kVA	460   368
Limited time running power (LTP)	kVA	506   405
Spec. fuel consumption PRP (LTP)		
100 % load	g/KWh lb/hph	195 0.316
75 % load	g/KWh   lb/hph	194 0.314
50% load	g/KWh   lb/hph	200 0.324
25 % load	g/KWh lb/hph	221 0.358

#### PRP\* kVA/KW:

Available electrical power (at variable load) in a medium of 80% of the indicated maximum power. A 10% overload capacity is available.

#### LTP\*\* kVA/KW:

Available electrical power load (at variable load) for a maximum of 500 hours per year. No overload capability available

#### Scope of supply:

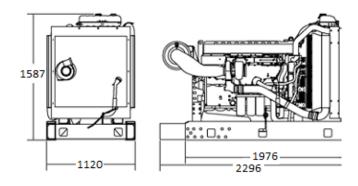
The engine and alternator are mounted together forming a rigid monoblock, the shoulders are connected by inflexible disc connection. The mono-block is mounted on a steel base frame through silent blocks. The base frame is including a fuel tank. Starting is electric and it contains a battery. The generator monitoring system consists of a control module.



### **Technical Data**

Engine type		TAD1640GE
Numer of cylinder		6
Bore x Stroke Displacement Compression ratio	mm I	144 x 165 16.12 17.5:1
Engine Power PRP	KW	368
Engine Power LTP	KW	405
Cooling Type		water
Injection Type		Electronic unit
Max allowable Back pressure Max Permitted air Intake restriction	Кра Кра	10 5
Standard Governor		Electronic
Oil system capacity	Litres	48
Battery	Ah	60
Starting engine	KW	5.0
Exhaust gas flow	m³/min	78.0
Exhaust gas Temperature	°C	571

### Dimensions

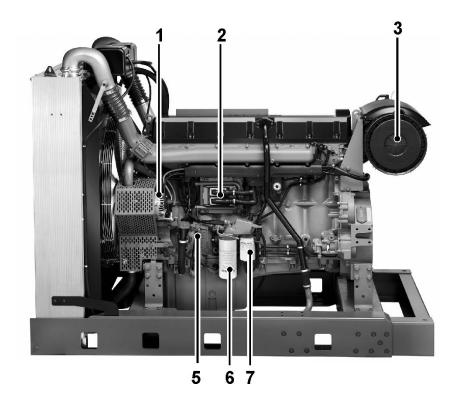


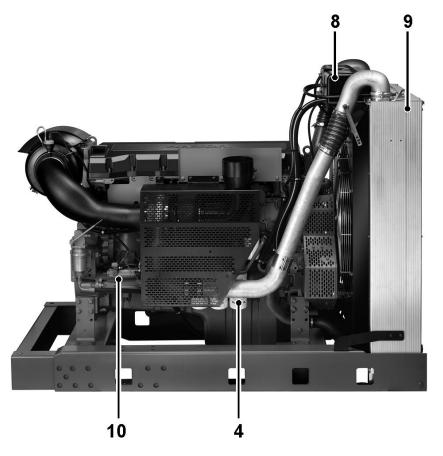
Engine type		Length	Width	Height	
TAD1640GE	mm	2296	1120	1587	

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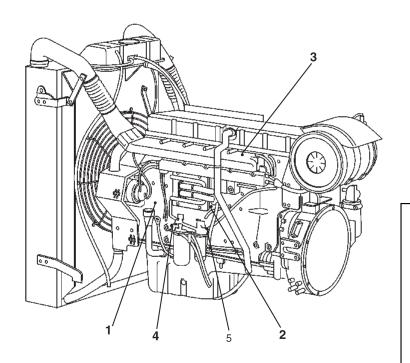


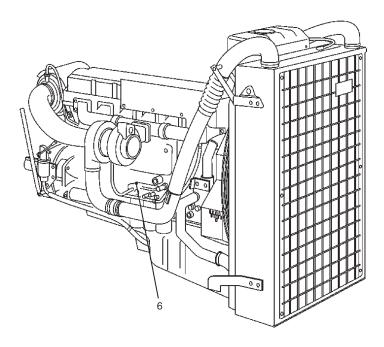


# Engine Description TAD1640GE

- 1 Alternator
- 2 Control, EMS
- 3 Air filters
- 4 Oil filler
- 5 Oil dipstick
- 6 Fuel filter with fuel pressure
- 7 Fuel pre-filter with water monitor
- 8 Expansion tank
- 9 Charge air coolers
- 10 Starter







# Engine Description TAD1640GE

- 1 Crankcase pressure
- 2 Oil pressure
- 3 Charge air pressure and charge air temperature after the charge air cooler
- 4 Fuel feed pressure(pre-filter)
- 5 Fuel feed pressure(after the filter)
- 6 Piston cooling oil pressure



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