

1500 RPM	Type GP100VO

The Engine with integrated water cooling

Engine: TAD531GE

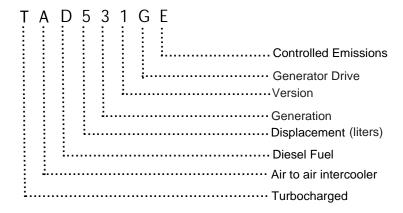
#### **Technical description**

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Drop forged steel connecting rods
- 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
- Three PTO positions at flywheel
- Lift eyelets
- Flywheel housing with connection acc. to SAE 2 and SAE 3
- Flywheel for flexible coupling and friction clutch
- Transport 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

#### 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 TAD531GE Engine.

Engine type		TAD531GE
Speed	min <sup>-1</sup> rpm	1500
Frequency	Hz	50
Engine Power		
Prime power (PRP)	kVA	100 80
Limited time running power (LTP)	kVA	110 88
Spec. fuel consumption PRP (LTP)		
100 % load	g/KWh lb/hp-hr	218 0.353
75 % load	g/KWh   lb/hp-hr	218 0.353
50% load	g/KWh   lb/hp-hr	225 0.365
25 % load	g/KWh lb/hp-hr	259 0.419

#### 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:

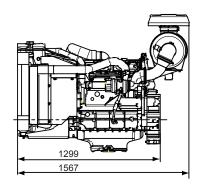
The engine and alternator are mounted together forming a rigid monoblock, the shoulders are connected by inflexible disc connection. The mono-block is mounted on a steel base frame through silent blocks. The base frame is including a fuel tank. Starting is electric and it contains a battery. The generator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

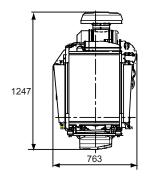


# **Technical Data**

Engine type		TAD531GE
Numer of cylinder		4
Bore x Stroke Displacement Compression ratio	mm I	108 x 130 4.76 18:1
Engine Power PRP	KW	80
Engine Power LTP	KW	88
Cooling Type		water
Injection Type		Directly
Max allowable Back pressure Max Permitted air Intake restriction	Кра Кра	5 3.5
Standard Governor		Mechanical
Oil cap	Litres	13
Battery	Ah	55
Starting engine	KW	3.1
Exhaust gas flow	m³/min	18.4
Exhaust gas Temperature	°C	557

# Dimensions

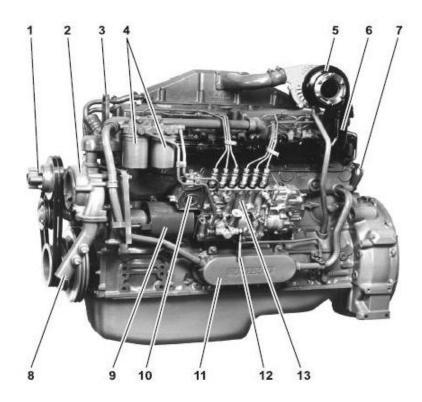


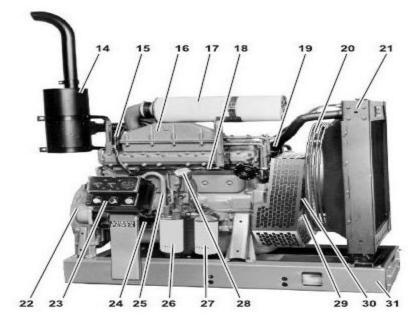


Engine type		Length	Width	Height
TAD531GE	mm	1567	763	1247

3







# Engine Description TAD531GE

- 1. Fan hub
- 2. Gear-driven coolant pump
- 3. Lifting lug
- 4. Double fuel filter
- 5. Turbocharger
- 6. Air-cooled exhaust manifold
- 7. Lifting lug
- 8 Coolant pipe, inlet
- 9 Pump coupling guard
- 10 Smoke limiter
- 11 Oil cooler
- 12 Fuel line for tank connection
- 13 Injection pump
- 14 Muffler
- 15 Relay for electrical starter
- 16 Electrical starter element
- 17 Air filter
- 18 Cable holder
- 19 Coolant pipe, outlet
- 20 Fan guard
- 21 Radiator
- 22 Flywheel cover
- 23 Instrument panel
- 24 Starter motor
- 25 Pipe for crankcase ventilation
- 26 Lubricating oil filter, full flow
- 27 Lubricating oil filter, part flow
- 28 Filler cap for lubricating oil
- 29 Vibration damper
- 30 Belt tensioner (automatic)
- 31 Frame



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