



1003TG



TST CO.
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44 kWm 1500 rev/min POWER PACK

50 kWm 1800 rev/min

Power Generation Application

High Power Density

Power output and torque per liter are superior to normal level with optimized structure strengthening design.

Low Fuel Consumption

The excellent combustion system can reduce fuel consumption, emission and noise, meanwhile increase engine power output.

Easy Maintenance

All routine service items are situated on the right hand side of engine allowing easy maintenance and minimum machine downtime.

Durability & Reliability

Start normally at -10°C without preheated device, start smoothly at -25°C through flame glow plug cold start aid.

Maximum cooling efficiency is provided by a gear driven water pump and independent fan drive.

Leak free operation is ensured by Viton crankshaft seals and sophisticated controlled swell joints, giving protection in the toughest conditions.



Engine Speed (rev/min)	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime Power	43.7	35.0	46.0	61.7	44.0	59.0
	Standby Power	47.5	38.0	50.0	67.0	48.0	64.3
1800	Prime Power	53.7	43.0	53.0	71.1	50.0	67.0
	Standby Power	60.0	48.0	58.0	77.8	55.0	73.7

Rating Base: ISO 8528, GB/T2820

Lubricating oil: API CF

1000 Series 1003TG

Standard Specification

Air inlet

- ✘ Mounted air filter and turbocharger

Fuel system

- ✘ In-line fuel injection pump
- ✘ Spin-on full flow fuel oil filters and pre-filter

Lubrication system

- ✘ Flat bottomed aluminium sump
- ✘ Spin-on full flow oil filters
- ✘ Oil cooler

Cooling system

- ✘ Thermostat controlled cooling system with gear driven water pump
- ✘ 20" belt-driven pusher fan and guards

Electrical system

- ✘ 12 volt starter motor and alternator
- ✘ Oil pressure and coolant temperature switches & sensor
- ✘ 12 volt shut down solenoid

Flywheel and housing

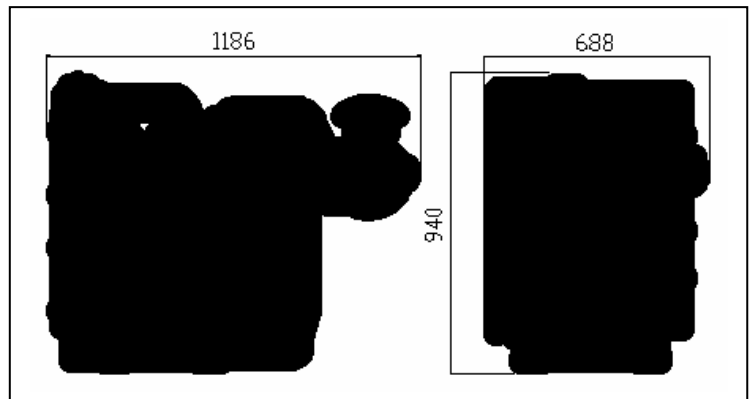
- ✘ High inertia flywheel to SAE3 size 10/11½

Mountings

- ✘ Front engine mounting bracket

Optional Equipment

- ✘ 24 volt alternator
- ✘ 24 volt starter motor



General Data

Cylinder number	3 in-line
Cylinder arrangement	Vertical in-line
Bore×stroke	100 mm×127 mm
Displacement	2.99 liters
Induction	Turbocharged
Cycle	4-stroke
Combustion system	Direct injection
Compression ratio	17.5:1
Direction of Rotation	Clockwise viewed from fan
Lub. System Capacity	8.1 liters
Coolant capacity (inc. radiator)	15.9 liters
Length	1186 mm
Width	688 mm
Height	940 mm
Dry weight	415 kg

Final weight and dimensions will depend on final specification.



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All information in this document is substantially correct at the time of printing and may be altered subsequently.



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