



**44 kWm 1500 rev/min**

**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.



# 1003TG POWER PACK

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

**RAD Diesel**

021-58437

## 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

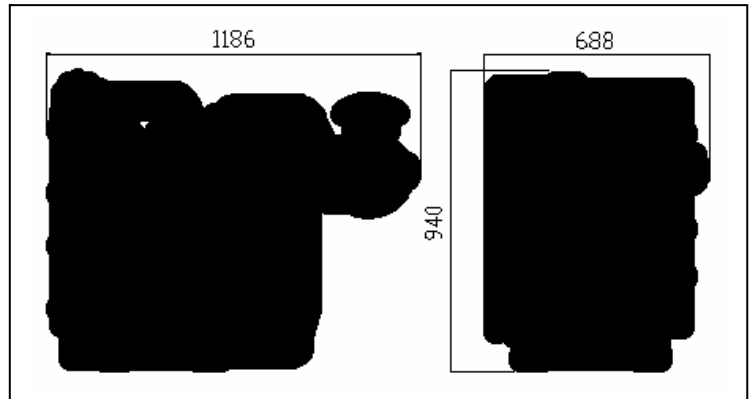
- ✘ High inertia flywheel to SAE3 size 10/11½

#### 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.