



INHERITING FROM THE WORLD'S
LEADING TECHNOLOGY

1003TG

POWER PACK
ROTARY PUMP

44 kWm 1500 rev/min
50kWm 1800 rev/min
GENSET POWER

High Power Density

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

Low Fuel Consumption

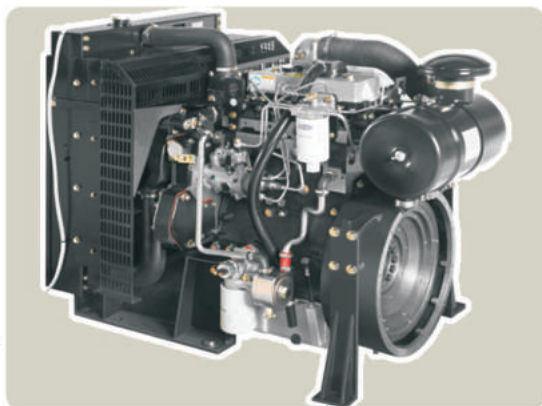
The excellent combustion system can reduce fuel consumption, emission and noise, meanwhile increase engine power output.

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			
		kVA	kW	Gross		Net	
1500	prime power	43.7	35	46	61.7	44	59
	standby power	47.5	38	50	67	48	64.3
1800	prime power	53.7	43	53	71.1	50	67
	standby power	60	48	58	77.8	55	73.7

Rating Base: ISO 8528, GB/T2820
Lubricating oil: API CF



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Standard Specification

Air inlet

Mounted air filter and turbocharger

Fuel system

Rotary fuel injection pump
Spin-on full flow fuel filter and pre-filter

Lubrication system

Flat bottomed aluminum sump
Spin-on full flow oil filter
Oil cooler

Cooling system

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

Electrical system

12 volt starter motor and alternator
Oil pressure and water temperature
switch & sensor
12 volt shut down solenoid

Flywheel and housing

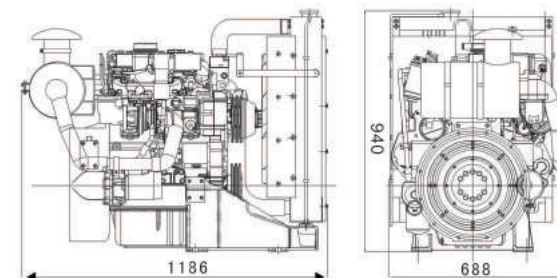
High inertia flywheel, size : 10/11 1/2
SAE3 flywheel housing

Mountings

Front engine mounting bracket

Optional Equipment

24 volt alternator
24 volt starter motor



General Data

Cylinder number	3
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
net weight	415 kg

Final weight and dimensions will depend on final specification.



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