



INHERITING FROM THE WORLD'S  
LEADING TECHNOLOGY



TST CO.  
www.TST-CO.com

**1003G**

POWER PACK  
ROTARY PUMP

**28 kWm 1500 rev/min**  
**30 kWm 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

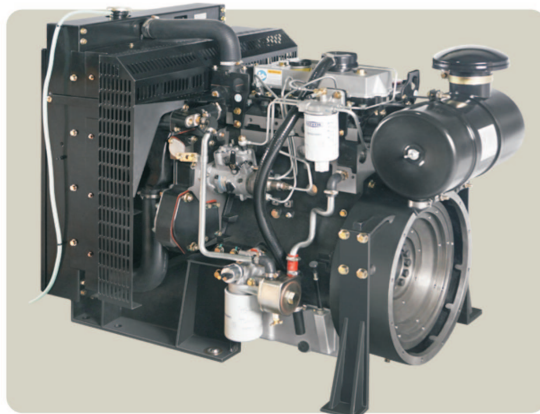
The excellent combustion system can reduce fuel consumption, emission and noise, meanwhile increase engine power output.

#### ■ 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			
				Gross		Net	
		kVA	kW	kWm	bh	kWm	bh
1500	prime power	27.5	22	30	40.2	28	37.6
	standby power	32.5	26	32.8	44	30.8	41.3
1800	prime power	33.8	27	33	44	30	40.2
	standby power	37.5	30	36	48.3	33	44.3

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

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#### Standard Specification

**Air inlet**  
Mounted air filter

#### 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

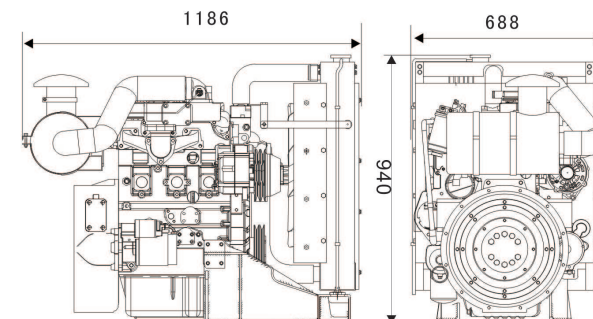
High inertia flywheel, size : 10/11 1/2  
SAE3 flywheel housing

#### 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	Naturally aspirated
Cycle	4-stroke
Combustion system	Direct injection
Compression ratio	16.5:1
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	410 kg

Final weight and dimensions will depend on final specification.



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