



**40 kWm 1500 rev/min**

**44 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.

# 1004G POWER PACK



| Engine Speed<br>(rev/min) | Type of Operation | Typical Generator<br>Output (Net) |      | Engine Power |      |      |      |
|---------------------------|-------------------|-----------------------------------|------|--------------|------|------|------|
|                           |                   |                                   |      | Gross        |      | Net  |      |
|                           |                   | kVA                               | kWe  | kWm          | bhp  | kWm  | bhp  |
| 1500                      | Prime Power       | 44.4                              | 35.5 | 42.0         | 56.3 | 40.0 | 53.6 |
|                           | Standby Power     | 48.4                              | 38.7 | 46.0         | 61.6 | 44.0 | 59.0 |
| 1800                      | Prime Power       | 48.7                              | 39.0 | 47.0         | 63.0 | 44.0 | 59.0 |
|                           | Standby Power     | 53.3                              | 42.6 | 51.0         | 68.3 | 48.0 | 64.3 |

Rating Base: ISO 8528, GB/T2820

Lubricating oil: API CF

### 1000 Series 1004G

#### 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

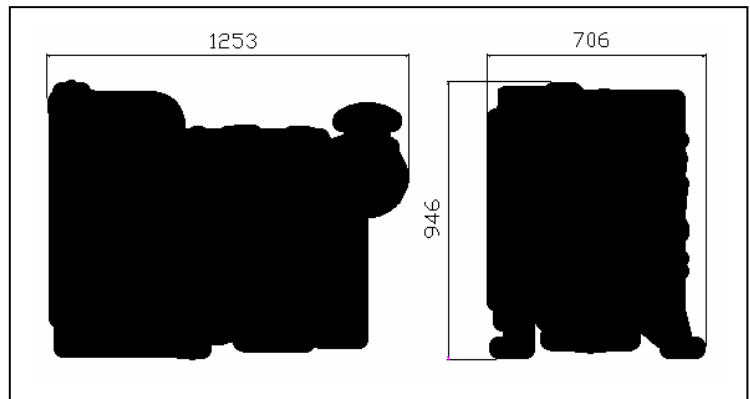
- ✘ High inertia flywheel to SAE3 size 10/11½

##### Mountings

- ✘ Front engine mounting bracket

#### Optional Equipment

- ✘ 24 volt alternator
- ✘ 24 volt starter motor



#### General Data

|                                     |                           |
|-------------------------------------|---------------------------|
| Cylinder number                     | 4 in-line                 |
| Cylinder arrangement                | Vertical in-line          |
| Bore×stroke                         | 100 mm×127 mm             |
| Displacement                        | 3.99 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                | 8.5 liters                |
| Coolant capacity<br>(inc. radiator) | 17.6 liters               |
| Length                              | 1253mm                    |
| Width                               | 706 mm                    |
| Height                              | 946 mm                    |
| Dry weight                          | 540 kg                    |

Final weight and dimensions will depend on final specification.



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