### Power

<table>
<thead>
<tr>
<th>Engine Speed</th>
<th>Type of Operation</th>
<th>Engine Power</th>
<th>Generator Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>r/min</td>
<td></td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>kVA</td>
</tr>
<tr>
<td>1500</td>
<td>Prime Power</td>
<td>95</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>Standby Power</td>
<td>105</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>110</td>
</tr>
<tr>
<td>1800</td>
<td>Prime Power</td>
<td>105</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>Standby Power</td>
<td>116</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>125</td>
<td></td>
</tr>
</tbody>
</table>

- The engine performance is as per GB/T2820
- Ratings are based on GB/T1147.1.

**Prime Power**: There is no time limit in the case of variable load operation. In any 250 hours of continuous operation period, the variable load of average work load less than 70% of the prime power. The operation time in the situation of 100% prime power no more than 500 hours. Permit 10% overload running 1 hours in any 12 hours of continuous operation period. The overload 10% power running time of every year no more than 25 hours.

**Standby Power**: The annual total standby power load should be less than 80% and the average running time shall be less than 200 hours. Among them the standby power point should be no more than 25 hours a year.

### Specifications

- **Engine Model**: 4HTAA4.3-G34
- **Engine Type**: In-line, 4 strokes, 4 valves, water-cooled, Turbo charged with aftercooler
- **Combustion type**: Direct injection
- **Cylinder Type**: Dry liner
- **Number of cylinders**: 4
- **Bore x Stroke**: 105 x 124 mm
- **Displacement**: 4.3 L
- **Compression ratio**: 16 : 1
- **Firing order**: 1-3-4-2
- **Injection timing**: Electronic control
- **Dry weight**: Approx. 460 kg
- **Dimension (L x W x H)**: 1037 x 728 x 1024 mm
- **Rotation**: SAE NO.3
- **Fly wheel housing**: SAE NO.11.5 (tooth number of gear: 127)

### Fuel Consumption

- **Power**: L/h (1500 r/min)
- **L/h (1800 r/min)**
- 25%: 5.5, 6.1
- 50%: 11.1, 12.3
- 75%: 16.5, 18.3
- 100%: 22.1, 24.5
- 110%: 24.8, 27.5

### Fuel System

- **Injection pump**: DENSO
- **Governor**: DENSO
- **Feed pump**: DENSO
- **Injection nozzle**: Multi hole type
- **Opening pressure**: 180 MPa
- **Fuel filter**: Full flow, cartridge type
- **Used fuel**: Diesel fuel oil

### Lubrication System

- **Lub. Method**: Fully forced pressure feed type
- **Oil pump**: Gear type driven by crankshaft
- **Oil filter**: Full flow, cartridge type
- **Oil pan capacity**: High level 13 liters
- **Lub. Oil**: Low level 11 liters
- **Angularity limit**: Front down 25 deg.
- **Side to side**: Front up 35 deg.
- **Refer to Operation Manual**: Refer to Operation Manual
**COOLING SYSTEM**

- **Cooling method**: Fresh water forced circulation
- **Water capacity**
  - (engine only): 6.8 liters
- **Lid Min. pressure**: 70 kPa
- **Water pump**: Centrifugal type driven by belt
- **Water pump Capacity**
  - 155 L/min (1500 r/min)
  - 186 L/min (1800 r/min)

- **The maximum temp. of coolant in prime/Standby power**: 104/100
- **Thermostat**: Wax–pellet type
  - Opening temp. 82°C
  - Full open temp. 95°C
- **Cooling fan**: Blower type, plastic
  - 620 mm diameter, 10 blades
  - Power consumption 3 kW
- **Cooling air flow**: 3 m³/s

**ENGINEERING DATA**

- **Heat rejection to coolant**: 9.6 kcal/sec (1500 r/min)
- **Heat rejection to intercooler**: 6.0 kcal/sec (1500 r/min)
- **Air flow**
  - 7.2 m³/min (1500 r/min)
  - 9.8 m³/min (1800 r/min)
- **Exhaust gas flow**
  - 17.4 m³/min (1500 r/min)
  - 23.3 m³/min (1800 r/min)
- **Exhaust gas temp.**: 600°C
- **Max. permissible restrictions**
  - Opening temp. 82°C
  - Intake system
  - Exhaust system
  - Max. permissible altitude
  - 6 kPa initial
  - 6 kPa final (need charge filter element)
  - 6 kPa max.

**ELECTRICAL SYSTEM**

- **Charging generator**: 24V×55A
- **Voltage regulator**: Built-in type IC regulator
- **Starting motor**: 24V×4.5 kW
- **Battery Voltage**: 24V
- **Battery Capacity**: 120 AH