



6KTAA25-G32

◎ Power

| Engine Speed r/min | Type of Operation | Engine Power | | Generator Power | |
|-----------------------|----------------------|--------------|------|-----------------|-----|
| | | kW | Ps | kW | kVA |
| 1500 | Prime Power | 685 | 932 | 600 | 750 |
| | Standby Power | 754 | 1025 | 660 | 825 |

-. 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 250hours 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 1hours 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 | 6KTAA25-G32 |
| ○ Engine Type | In-line, 4 strokes, water-cooled, Turbo charged with aftercooler |
| ○ Combustion type | Direct injection |
| ○ Cylinder Type | Wet liner |
| ○ Number of cylinders | 6 |
| ○ Bore × stroke | 170 × 185 mm |
| ○ Displacement | 25.18L |
| ○ Compression ratio | 14.5 : 1 |
| ○ Firing order | 1-5-3-6-2-4 |
| ○ Injection timing | Electronic control |
| ○ Dry weight | Approx. 2700kg |
| ○ Dimension (L×W×H) | 2055×1241×1936mm |
| ○ Rotation | SAE NO.0 |
| ○ Fly wheel housing | SAE NO.18(tooth number of gear: 143) |

◎ MECHANISM

| | |
|------------------------|----------------------------------|
| ○ Type | Overhead valve |
| ○ Number of valve | Intake 2, exhaust 2 per cylinder |
| ○ Valve lashes at cold | Intake 0.35mm Exhaust 0.60mm |

◎ VALVE TIMING

| | Opening | Close |
|-----------------|----------|----------|
| ○ Intake valve | 25° BTDC | 57° ABDC |
| ○ Exhaust valve | 66° BBDC | 16° ATDC |

◎ COOLING SYSTEM

| | |
|------------------|--------------------------------|
| ○ Cooling method | Fresh water forced circulation |
|------------------|--------------------------------|

◎ FUEL CONSUMPTION

| | |
|---------|-----------------|
| ○ Power | L/h (1500r/min) |
| 25% | 47 |
| 50% | 84 |
| 75% | 124 |
| 100% | 163 |
| 110% | 178 |

◎ FUEL SYSTEM

| | |
|--------------------|---------------------------|
| ○ Injection pump | Liebherr |
| ○ Governor | Liebherr |
| ○ Feed pump | Electronic Control |
| ○ Injection nozzle | Multi hole type |
| ○ 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 75 liters Low level 45 liters |
| ○ Angularity limit | Front down 12deg. Front up 15 deg. Side to side 35 deg. |
| ○ Lub. Oil | Refer to Operation Manual |

◎ ENGINEERING DATA

- Water capacity (engine only) 55 liters
- Water pump Centrifugal type driven by belt
- Water pump Capacity 880L/min (1500r/min)
- Thermostat Wax-pellet type
 - Opening temp. 77 °C
 - Full open temp. 90 °C
- Cooling fan Blower type, plastic
 - 1220 mm diameter, 8blades
 - Power consumption 22kw
- Air flow 3210m3/min (1500r/min)
- Exhaust gas flow 8330m3/min (1500r/min)
- Exhaust gas temp. 500 °C
- Max. permissible restrictions
 - Intake system 2.5 kPa initial
 - 6.2 kPa final (need charge filter element)
 - Exhaust system 10 kPa max.
- Max. permissible altitude 2000 m
- intercooler permissible restrictions 10 kPa

◎ **ELECTRICAL SYSTEM**

- Charging generator 28V×55A
- Voltage regulator Built-in type IC regulator
- Starting motor 24V×9kW
- Battery Voltage 24V
- Battery Capacity 200 AH

◆ **换算表**

in. = mm × 0.0394

PS = kW × 1.3596

psi = kg/cm² × 14.2233

in³ = L × 61.02

hp = PS × 0.98635

lb = kg × 2.20462

lb/ft = N.m × 0.737

U.S. gal = L × 0.264

kW = 0.2388 kcal/s

lb/PS.h = g/kW.h × 0.00162

cfm = m³/min × 35.336

