

| Engine Speed (r/min) | Type of Operation | Engine Power (kW) | Generator Power (kW) |
|----------------------|-------------------|-------------------|----------------------|
| 1500 | Prime Power | 307 | 280 |
| 1500 | Standby Power | 338 | 300 |
| 1800 | Prime Power | 307 | 280 |
| 1800 | Standby Power | 338 | 300 |

· The engine performance is as per GB/T2820
· Ratings are based on GB/T11471.

• 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 80% of the prime power.

The operation time in the situation of 100% prime power no more than 500 hours. Permit 10% overload running 1 hour 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 | AS11800-E7183 |
| Engine Type | In-line, 4 strokes, 4 valves, water-cooled, Turbo charged, air-to-air intercooled |
| Combustion type | Direct injection |
| Cylinder Type | Dry liner |
| Number of cylinders | 6 |
| Bore × stroke | 128 × 153mm |
| Displacement | 11.8 L |
| Compression ratio | 17: 1 |
| Firing order | 1-5-3-6-2-4 |
| Injection timing | 14.5° BTDC |
| Dry weight | Approx. 1164kg |
| Dimension (L×W×H) | 1787×918×1304mm |
| Rotation | Counter clockwise viewed from Flywheel |
| Fly wheel housing | SAE NO.1# |
| Fly wheel | SAE NO.14# |

Mechanism

| | |
|----------------------|----------------------------------|
| Type | Over head valve |
| Number of valve | Intake 2, exhaust 2 per cylinder |
| Valve lashes at cold | Intake 0.40mm Exhaust 0.65mm |

Fuel System

| | |
|------------------|---------------------------|
| Injection pump | Longkou in-line "P" type |
| Governor | Electric type |
| Feed pump | Mechanical type |
| Injection nozzle | Multi hole type |
| Opening pressure | 250 kg/cm ² |
| Fuel filter | Full flow, cartridge type |
| Used fuel | Diesel fuel oil |

Valve Timing

| | Opening | Close |
|---------------|----------|----------|
| Intake valve | 15° BTDC | 30° ABDC |
| Exhaust valve | 45° BBDC | 13° ATDC |

Fuel Consumption

| Power | L/h (1500r/min) | L/h (1800r/min) |
|-------|-----------------|-----------------|
| 25% | 21.0 | 21.1 |
| 50% | 37.0 | 37.2 |
| 75% | 53.7 | 54.0 |
| 100% | 73.3 | 73.7 |
| 110% | 81.6 | 82.4 |

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 41 liters Low level 33 liters |
| Angularity limit | Front down 25° Front up 35° Side to side 35° |

Cooling System

| | |
|---|---|
| Cooling method | Fresh water forced circulation |
| Water capacity (engine only) | 23.2 liters |
| Lid Min. pressure | Max. 0.5 kg/cm ² |
| Water pump | Centrifugal type driven by belt |
| Water pump Capacity | 515 L/min (1500r/min) 618 L/min (1800r/min) |
| Thermostat | Wax-pellet type Opening temp. 85°C Full open temp. 95°C |
| Cooling fan | Blower type, plastic 843 mm diameter, 8 blades |
| Cooling fan power consumption | TBA |
| The maximum temp. of coolant in prime / Standby power | 104/100°C |

Electrical System

| | |
|--------------------|----------------------------|
| Charging generator | 28V×55A |
| Voltage regulator | Built-in type IC regulator |
| Starting motor | 24V×7.5kW |
| Battery Voltage | 24V |
| Battery Capacity | 180 AH |

Engineering Data

| | |
|--------------------------------------|--|
| Heat rejection to coolant | 30.9 kcal/sec (1500r/min) 31.8 kcal/sec (1800r/min) |
| Heat rejection to CAC | 19.3 kcal/sec (1500r/min) 20.5 kcal/sec (1800r/min) |
| Engine air flow | 29 m ³ /min (1500r/min) 31.2 m ³ /min (1800r/min) |
| Exhaust gas flow | 76 m ³ /min (1500r/min) 78.1 m ³ /min (1800r/min) |
| Exhaust gas temp | 600 °C |
| Max. permissible restrictions | 3 kPa initial |
| Intake system | 6 kPa initial |
| Exhaust system | 10 kPa max |
| Max. permissible altitude | N/A |
| intercooler permissible restrictions | 10 kPa |

Power Derate

All data is based on the engine operating without air compressor, fan, generator, fan, optional equipment and driven components.

All data is based on the engine operating with 3.7 kPa inlet air restriction, 10 kPa exhaust restriction and with 13 kPa Inter-cooled implement differential pressure.

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 of 99kPa baiometric press, 298K inlet air temperature, and 1kPa water vapor pressure.



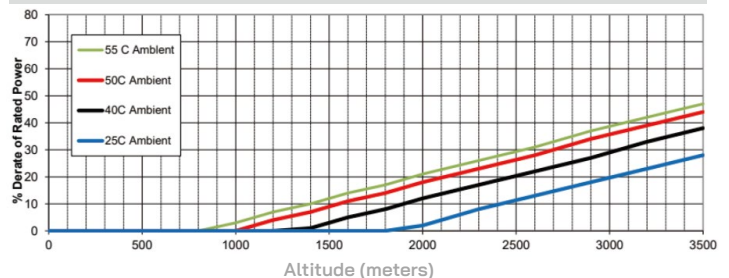
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