



SC7H230D2

◎ POWER RATING

| Engine Speed rpm | Type of Operation | Engine Power | |
|---------------------|----------------------|--------------|-----|
| | | kW | Ps |
| 1500 | Prime Power | 154 | 210 |
| | Standby Power | 170 | 231 |

-. The engine performance is as per GB/T2820.

-. Ratings are based on GB/T1147.1.

---Prime power is available for an unlimited number of hours per year in a variable load application. The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.

---Standby power is available in the event of a utility power outage or under test conditions for up to 200 hours of operation per year.

The permissible average power output over 24 hours of operation shall not exceed 80% of the standby power rating.

◎ SPECIFICATIONS

- Engine Model SC7H230D2
- Engine Type In-line, 4 strokes, water-cooled
4 valves, Turbo charged
air-to-air intercooled
- Combustion type Direct injection
- Cylinder Type Dry liner
- Number of cylinders 6
- Bore × stroke 105(4.14) × 124(4.89) mm(in.)
- Displacement 6.44(393) lit.(in³)
- Compression ratio 16 : 1
- Firing order 1-5-3-6-2-4
- Injection timing 12° BTDC
- Dry weight Approx. 580 kg (1278.7 lb)
- Dimension 1343×741×1267 mm
(L×W×H) (52.9×29.2×49.9 in.)
- Rotation Counter clockwise viewed from
Flywheel
- Fly wheel housing SAE NO.3
- Fly wheel SAE NO.11.5

◎ MECHANISM

- Type Over head valve
- Number of valve Intake 2, exhaust 2 per cylinder
- Valve lashes at cold Intake 0.25mm (0.0099 in.)
Exhaust 0.50mm (0.0197 in.)

◎ VALVE TIMING

- | | Opening | Close |
|-----------------|------------|------------|
| ○ Intake valve | 20.9° BTDC | 44.9° ABDC |
| ○ Exhaust valve | 51.7° BBDC | 11.7° ATDC |

◎ COOLING SYSTEM

- Cooling method Fresh water forced circulation
- Water capacity 9.6 liters (2.5 gal.)

◎ FUEL CONSUMPTION

- | ○ Power | lit/hr |
|---------|--------|
| 25% | 9.6 |
| 50% | 18.2 |
| 75% | 27.3 |
| 100% | 36.5 |
| 110% | 40.5 |

◎ 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/cm² (3556 psi)
- 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 17.5 liters (4.62 gal.)
Low level 15 liters (3.96 gal.)
- Angularity limit Front down 25 deg.
Front up 35 deg.
Side to side 35 deg.
- Lub. Oil Refer to Operation Manual

◎ ENGINEERING DATA

- Water flow 170 liters/min @1,500 rpm
- Heat rejection to coolant 18.4 kcal/sec @1,500 rpm

- (engine only)
- Pressure system Max. 0.5 kg/cm² (7.11 psi)
- Water pump Centrifugal type driven by belt
- Water pump Capacity 170liters (44.9 gal.)/min at 1,500 rpm (engine)
- Thermostat Wax-pellet type
Opening temp. 82°C
Full open temp. 95°C
- Cooling fan Blower type, plastic
660 mm diameter, 10 blades

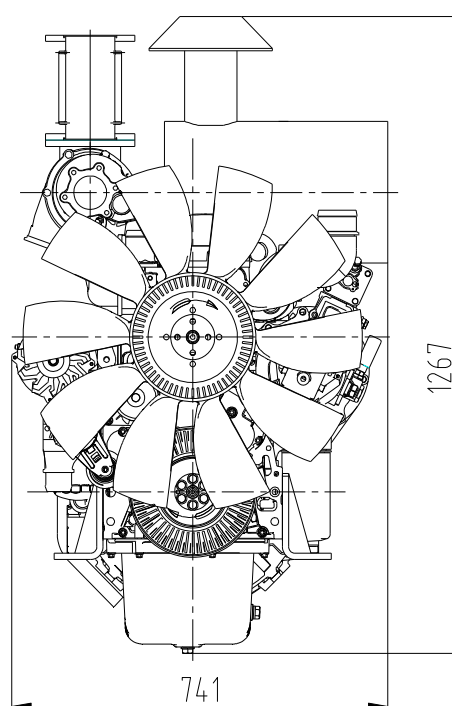
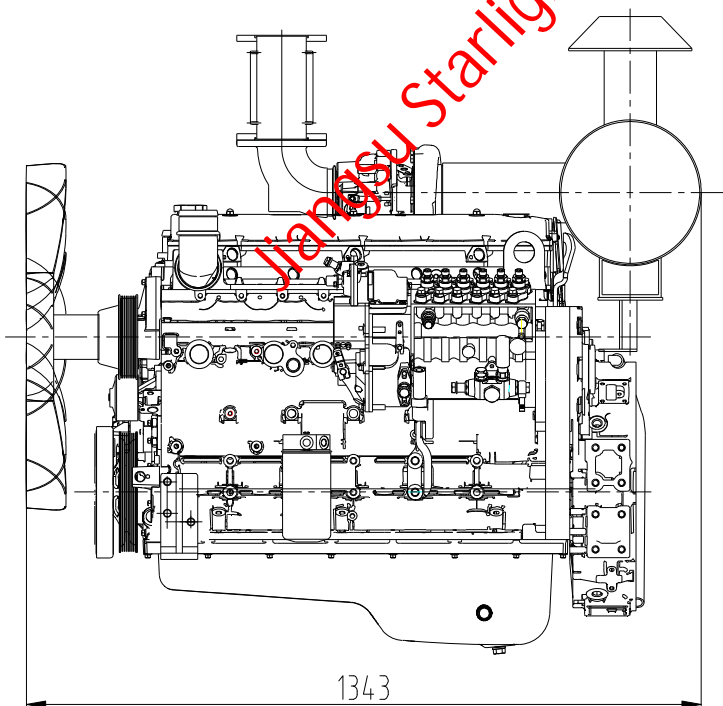
- Heat rejection to CAC 9.1 kcal/sec @1,500 rpm
- Air flow 12.2 m³/min @1,500 rpm
- Exhaust gas flow 27.2 m³/min @1,500 rpm
- Exhaust gas temp. 600 °C @1,500 rpm
- Max. permissible restrictions
Intake system 3 kPa initial
6 kPa final
Exhaust system 6 kPa max.
- Max. permissible altitude 2,000 m

◎ ELECTRICAL SYSTEM

- Charging generator 28V×55A
- Voltage regulator Built-in type IC regulator
- Starting motor 24V×6kW
- Battery Voltage 24V
- Battery Capacity 150 AH

◆ CONVERSION TABLE

- in. = mm × 0.0394
- PS = kW × 1.3596
- psi = kg/cm² × 14.2233
- in³ = lit. × 61.02
- hp = PS × 0.98635
- lb = kg × 2.20462
- lb/ft = N.m × 0.737
- U.S. gal = lit. × 0.264
- kW = 0.2388 kcal/s
- lb/PS.h = g/kW.h × 0.00162
- cfm = m³/min × 35.336



Jiangsu Starlight Electricity Equipment Co., Ltd - Diesel Generator Set Manufacturer

Adds: No.2 Xingguang Road, Guxi Industrial Park, Taixing, Jiangsu, China

E-mail: sales@dieselgeneratortech.com

Website: www.dieselgeneratortech.com

Tel: +86 134 8102 4441



WeChat