



# SC4H95D2

## ◎ POWER RATING

Engine Speed rpm	Type of Operation	Engine Power	
		kW	Ps
1500	Prime Power	62	85
	Standby Power	68	95

-. 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 SC4H95D2
- Engine Type In-line,4 strokes, water-cooled  
4 valves, Turbo charged
- Combustion type Direct injection
- Cylinder Type Dry liner
- Number of cylinders 4
- Bore × stroke 105(4.14) × 124(4.89) mm(in.)
- Displacement 4.3(262.4) lit.(in3)
- Compression ratio 17.3 : 1
- Firing order 1-3-4-2
- Injection timing 13.5°BTDC
- Dry weight Approx. 450kg (992.1 lb)
- Dimension 1012×723×1102 mm  
(L×W×H) (39.9×28.5×43.4in.)
- 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 6.8 liters ( 1.8 gal.)  
(engine only)

## ◎ FUEL CONSUMPTION

- | ○ Power | lit/hr |
|---------|--------|
| 25%     | 4.8    |
| 50%     | 8.0    |
| 75%     | 11.4   |
| 100%    | 15     |
| 110%    | 16.8   |

## ◎ FUEL SYSTEM

- Injection pump Beiyou in-line “AD” 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 13 liters ( 3.4 gal.)  
Low level 11 liters ( 2.9 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 117 liters/min @1,500 rpm
- Heat rejection to coolant 11.7 kcal/sec @1,500 rpm

- Pressure system Max. 0.5 kg/cm<sup>2</sup> ( 7.11 psi)
- Water pump Centrifugal type driven by belt
- Water pump Capacity 117 liters ( 30.9 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  
550 mm diameter, 9 blades

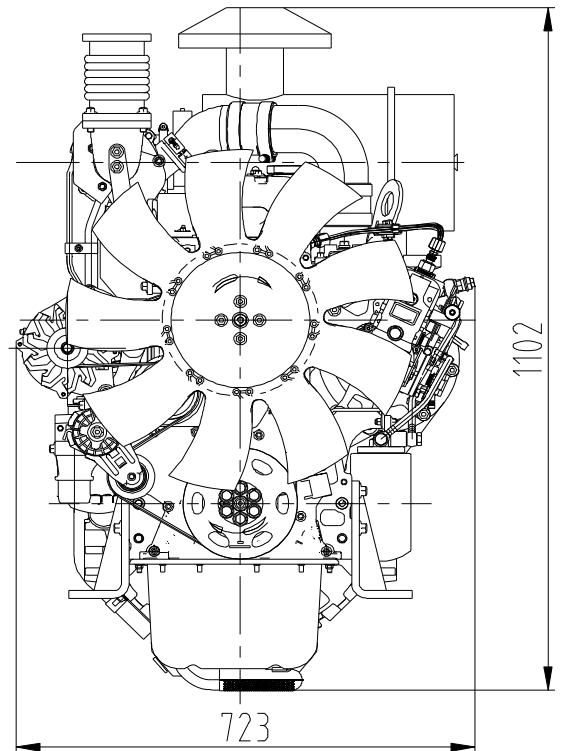
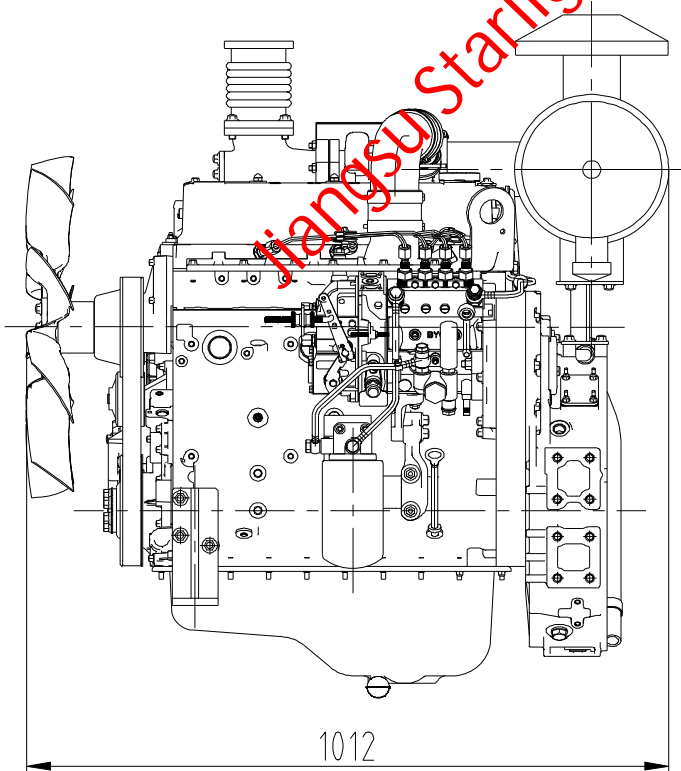
- Air flow 5 m<sup>3</sup>/min @1,500 rpm
- Exhaust gas flow 11.5 m<sup>3</sup>/min @1,500 rpm
- Exhaust gas temp. 600 °C @ 1,500 rpm
- Max. permissible restrictions  
Intake system 3 kPa initial  
6 kPa final  
Exhaust system 6 kPa max.
- Max. permissible altitude 2,000 m

◎ **ELECTRICAL SYSTEM**

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

◆ **CONVERSION TABLE**

- |                                    |                                    |
|------------------------------------|------------------------------------|
| in. = mm × 0.0394                  | lb/ft = N.m × 0.737                |
| PS = kW × 1.3596                   | U.S. gal = lit. × 0.264            |
| psi = kg/cm <sup>2</sup> × 14.2233 | kW = 0.2388 kcal/s                 |
| in <sup>3</sup> = lit. × 61.02     | lb/PS.h = g/kW.h × 0.00162         |
| hp = PS × 0.98635                  | cfm = m <sup>3</sup> /min × 35.336 |
| lb = kg × 2.20462                  |                                    |



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