

SC9D310D2

O POWER RATING

Engine Speed	Type of	Engine Power	
rpm	Operation	kW	Ps
1500	Prime Power	208	287
	Standby Power	228	310

- -. 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 **© FUEL CONSUMPTION** • Engine Model SC9D310D2 Power lit/hr • Engine Type In-line,4 strokes, water-cooled 25% Turbo charged 50% 75% 38.2 air-to-air intercooled 50.6 Combustion type Direct injection 100% Wet liner 55.6 Cylinder Type Number of cylinders ○ Bore × stroke $114(4.49) \times 144(5.67)$ mm(in.) Displacement 8.82(538.2) lit.(in3) O Compression ratio 18:1 • Firing order 1-5-3-6-2-4 6°BTDC Injection timing Injection pump Longkou in-line "P" type Approx. 740kg (1631b) Ory weight Governor Electric type O Dimension 1455×762×1273 mm • Feed pump Mechanical type $(L\times W\times H)$ $(57.3 \times 30.0 \times 50.2 \text{ in.})$ Injection nozzle Multi hole type • Rotation Counter clockwise vi Opening pressure 250 kg/cm2 (3556 psi) Flywheel ○ Fuel filter Full flow, cartridge type Used fuel Diesel fuel oil • Fly wheel housing • Fly wheel

MECHANISM

○ Type Over head valve

Intake 1, exhaust 1 per cylinder O Number of valve Intake 0.30mm (0.0118 in.) Valve lashes at

Exhaust 0.50mm (0.0197 in.)

CONTRACTOR SYSTEM

O 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 19 liters (5.02 gal.)

Low level 15 liters (3.96 gal.)

O Angularity limit Front down 25 deg.

ENGINEERING DATA

VALVE TIMING

	Opening	Close		Front up 35 deg.
 Intake valve 	22.5 deg. BTDC	34.5 deg. ABDC		Side to side 35 deg.
 Exhaust valve 	67.5 deg BBDC	25.5 deg ATDC	O Lub Oil	Refer to Operation Manual

COOLING SYSTEM

 Cooling method Fresh water forced circulation Water capacity

O Water flow 200 liters/min @1,500 rpm 12 liters (3.17 gal.) • Heat rejection to coolant 20.35 kcal/sec @1,500 rpm

(engine only) Max. 0.5 kg/cm2 (7.11 psi) • Pressure system O Water pump Centrifugal type driven by belt O Water pump Capacity 200 liters (52.8 gal.)/min at 1,500 rpm (engine) ○ Thermostat Wax-pellet type

Opening temp. 82°C Full open temp. 93°C Blower type, plastic

28V×55A

24V×7.5kW

24V

180 AH

O Cooling fan

© ELECTRICAL SYSTEM

O Charging generator

O Voltage regulator

Starting motor

O Battery Voltage

O Battery Capacity

762 mm diameter, 10 blades

Built-in type IC regulator

 Heat rejection to CAC 10.4 kcal/sec @1,500 rpm 16.4 m3/min @1,500 rpm • Air flow O Exhaust gas flow 35.9 m3/min @1,500 rpm 600 @ 1,500 rpm • Exhaust gas temp.

• Max. permissible restrictions Intake system

Exhaust system

Max. permissible altitude

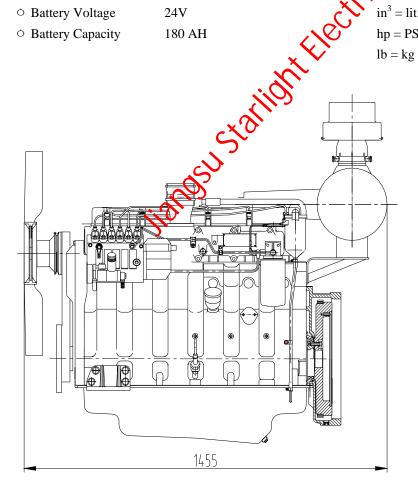
3 kPa initial

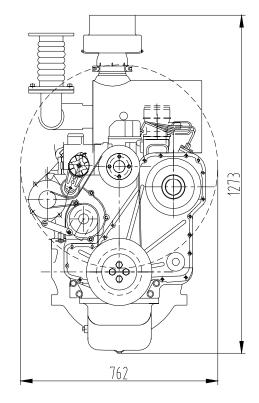
6 kPa final 6 kPa max. 2,000 m

CONVERSION TABLE

in. **=** nm × 0.0394 $lb/ft = N.m \times 0.737$ = kW × 1.3596 U.S. gal = lit. \times 0.264 $= kg/cm2 \times 14.2233$ kW = 0.2388 kcal/s

 $in^3 = lit. \times 61.02$ $lb/PS.h = g/kW.h \times 0.00162$ $hp = PS \times 0.98635$ $cfm = m3/min \times 35.336$ $lb = kg \times 2.20462$





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