

O POWER RATING

Engine Speed	Type of	Engine Power	
rpm	Operation	kW	Ps
1500	Prime Power	280	381
	Standby Power	308	419

-. 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.

O SPECIFICATIONS **©** FUEL CONSUMPTION ○ Engine Model SC13G420D2 • Power lit/hr ○ Engine Type In-line,4 strokes, water-cooled 25% 15.8 Turbo charged 50% 31.6 75% 47.1 air-to-air intercooled 65.2 • Combustion type Direct injection 100% 110% 72.8 Wet liner Cylinder Type • Number of cylinders 6 \circ Bore \times stroke 135(5.32) ×150(5.9) mm(in.) • Displacement 12,88(786) lit.(in3) • Compression ratio 16:1 • Firing order 1-5-3-6-2-4 FUEL SYSTEM 15°BTDC O Injection pump • Injection timing Yijie in-line "P" type Approx.1296kg (2857.2 lt • Governor • Dry weight Electric type 1704×1063×1540 mm • Dimension ○ Feed pump Mechanical type $(L \times W \times H)$ (67.1×41.9×60.7 in Injection nozzle Multi hole type • Rotation Counter clockwise Opening pressure 240kg/cm2 (3414 psi) wed from Flywheel ○ Fuel filter Full flow, cartridge type • Fly wheel housing O Used fuel Diesel fuel oil ○ Fly wheel O MECHANISM O LUBRICATION SYSTEM ○ Type Over head valve • Lub. Method Fully forced pressure feed type ○ Number of valve Intake 1, exhaust 1 per cylinder • Oil pump Gear type driven by crankshaft • Valve lashes at cold • Oil filter Intake 0.325mm (0.0128 in.) Full flow, cartridge type Exhaust 0.375mm (0.0148 in.) • Oil pan capacity High level 41 liters (10.82 gal.) Low level 33 liters (8.71 gal.) O VALV > Angularity limit Front down 25 deg. Front up 35 deg.

\bigcirc VALVE TIMING			Ò
	Opening	Close	
○ Intake valve	20 deg. BTDC	48 deg. ABDC	

48 deg. BBDC

COOLING SYSTEM

 Cooling method • Water capacity

• Exhaust valve

Fresh water forced circulation 25.5 liters (6.73 gal.)

20 deg. ATDC

ENGINEERING DATA

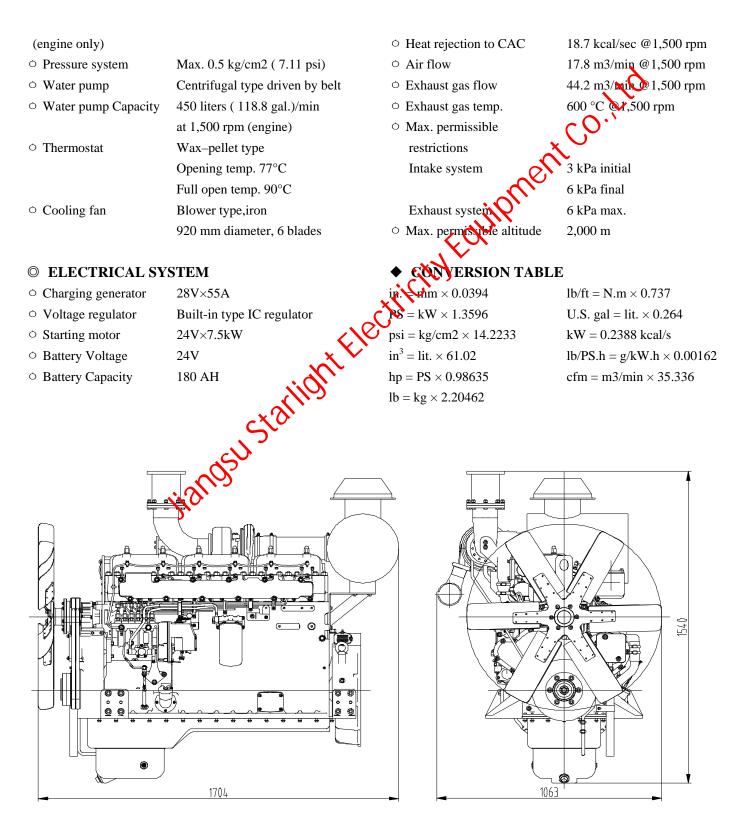
• Water flow

O Lub. Oil

- Heat rejection to coolant
- 450 liters/min @1,500 rpm 32.5 kcal/sec @1,500 rpm

Refer to Operation Manual

Side to side 35 deg.



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