

## O POWER RATING

Engine Speed	Type of	Engine Power	
rpm	Operation	kW	Ps
1500	Prime Power	105	143
	Standby Power	116	160

-. 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 SC4H160D2 • Power lit/hr ○ Engine Type In-line,4 strokes, water-cooled 25% 6.6 4 valves, Turbo charged 50% 12.8 75% 16.7 air-to-air intercooled • Combustion type Direct injection 100% 25.0 110% 27.7 Cylinder Type Dry liner • Number of cylinders 4 $\circ$ Bore $\times$ stroke $105(4.14) \times 124(4.89)$ mm(in.) 50 4.3(262.4) lit.(in3) • Displacement • Compression ratio 16:1 **FUEL SYSTEM** • Firing order 1 - 3 - 4 - 211°BTDC Injection pump • Injection timing Longkou in-line "P" type Approx. 450kg (992.1 lb) • Governor • Dry weight Electric type 1053×717×1158 mm • Dimension ○ Feed pump Mechanical type $(L \times W \times H)$ (41.5×28.3×45.6 in Injection nozzle Multi hole type • Rotation Counter clockwi wed from Opening pressure 250 kg/cm2 (3556 psi) ○ Fuel filter Full flow, cartridge type Flywheel • Fly wheel housing O Used fuel Diesel fuel oil ○ Fly wheel **O MECHANISM** O LUBRICATION SYSTEM ○ Type Dver head valve • Lub. Method Fully forced pressure feed type • Number of valve Intake 2, exhaust 2 per cylinder • Oil pump Gear type driven by crankshaft • Valve lashes at cold Intake 0.25mm (0.0099 in.) • Oil filter Full flow, cartridge type • Oil pan capacity Exhaust 0.50mm (0.0197 in.) High level 13 liters (3.4 gal.) Low level 11 liters (2.9 gal.) **VALVE TIMING** Angularity limit Front down 25 deg. Onening Close Front up 35 deg. Side to side 35 deg.

	opening	Close
○ Intake valve	20.9° BTDC	$44.9^{\circ}$ ABDC
○ Exhaust valve	51.7° BBDC	$11.7^{\circ}$ ATDC

## COOLING SYSTEM

• Cooling method • Water capacity

Fresh water forced circulation 6.8 liters (1.8 gal.)

## **ENGINEERING DATA** $\bigcirc$

• Water flow	N
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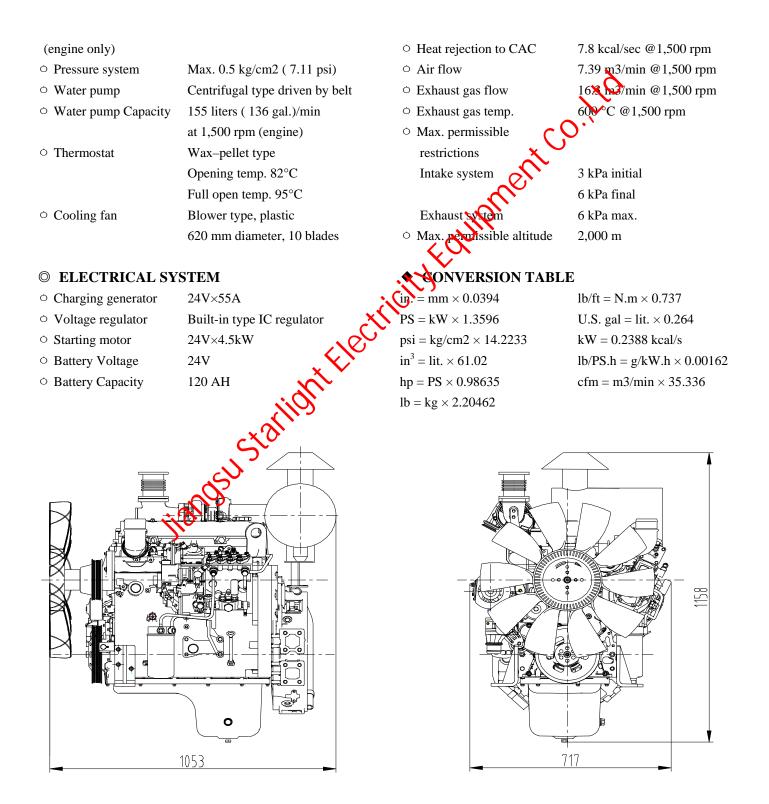
O Lub. Oil

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Heat rejection to coolant	15.5 kcal/sec @1,500 rpm

Refer to Operation Manual

155 liters/min @1,500 rpm



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