

SC7H230D2

OUTPOON POWER RATING

Engine Speed	Type of	Engine	Power
rpm	Operation		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

© FUEL CONSUMPTION

O Engine Model	SC7H230D2	O Power	lit/hr
O Engine Type	In-line,4 strokes, water-cooled	25%	9.6
	4 valves, Turbo charged	50%	18.2
	air-to-air intercooled	75%	27.3
O Combustion type	Direct injection	100%	36.5
O Cylinder Type	Dry liner	110%	40.5
O Number of cylinders	6		
O Bore × stroke	105(4.14) × 124(4.89) mm(in.)		
O Displacement	6.44(393) lit.(in3)		
O Compression ratio	16:1		
O Firing order	1-5-3-6-2-4	◎ FUEL SYSTEM	
O Injection timing	12°BTDC	O Injection pump	Longkou in-line "P" type
O Dry weight	Approx. 580 kg (1278.7 lb)	O Governor	Electric type
O Dimension	1343×741×1267 mm	O Feed pump	Mechanical type
$(L \times W \times H)$	(52.9×29.2×49.9 in.)	O Injection nozzle	Multi hole type
O Rotation	Counter clockwise viewed from	O Opening pressure	250 kg/cm2 (3556 psi)
	Flywheel	O Fuel filter	Full flow, cartridge type

• Fly wheel housing	SAE NO.3	O Used fuel	Diesel fuel oil	
O Fly wheel	SAE NO.11.5			
MECHANISM		 LUBRICATION SYSTEM 		
О Туре	Over head valve	O Lub. Method	Fully forced pressure feed type	
O Number of valve	Intake 2, exhaust 2 per cylinder	O Oil pump	Gear type driven by crankshaft	
O Valve lashes at cold	Intake 0.25mm (0.0099 in.)	O Oil filter	Full flow, cartridge type	
	Exhaust 0.50mm (0.0197 in.)	O Oil pan capacity	High level 17.5 liters (4.62 gal.) Low level 15 liters (3.96 gal.)	
VALVE TIMING	Opening Close	O Angularity limit	Front down 25 deg. Front up 35 deg.	
O Intake valve	20.9° BTDC 44.9° ABDC		Side to side 35 deg.	
O Exhaust valve	51.7° BBDC 11.7° ATDC	O Lub. Oil	Refer to Operation Manual	
© COOLING SYSTEM		© ENGINEERING DATA		
O Cooling method	Fresh water forced circulation	O Water flow	170 liters/min @1,500 rpm	
O Water capacity	9.6 liters (2.5 gal.)	O Heat rejection to coolant	18.4 kcal/sec @1,500 rpm	
(engine only)		O Heat rejection to CAC	9.1 kcal/sec @1,500 rpm	
O Pressure system	Max. 0.5 kg/cm2 (7.11 psi)	O Air flow	12.2 m3/min @1,500 rpm	
O Water pump	Centrifugal type driven by belt	O Exhaust gas flow	27.2 m3/min @1,500 rpm	
O Water pump Capacity	170liters (44.9 gal.)/min	O Exhaust gas temp.	600 °C @1,500 rpm	
	at 1,500 rpm (engine)	O Max. permissible		
O Thermostat	Wax-pellet type Opening temp. 82°C Full open temp. 95°C	restrictions Intake system	3 kPa initial 6 kPa final	
O Cooling fan	Blower type, plastic	Exhaust system	6 kPa max.	
	660 mm diameter, 10 blades	O Max. permissible altitude	2,000 m	
O Cooling air flow	4.53 m³/s	O Fan power	6 kW	

© ELECTRICAL SYSTEM

♦ CONVERSION TABLE

O Charging generator 28V×55A

in. = $mm \times 0.0394$

 $lb/ft = N.m \times 0.737$

O Voltage regulator

Built-in type IC regulator

 $PS = kW \times 1.3596$

U.S. gal = lit. \times 0.264

O Starting motor

 $24V \times 6kW$

 $psi = kg/cm2 \times 14.2233$

kW = 0.2388 kcal/s

O Battery Voltage

24V

 $in^3 = lit. \times 61.02$

 $lb/PS.h = g/kW.h \times 0.00162$

O Battery Capacity

150 AH

 $hp = PS \times 0.98635$

 $cfm = m3/min \times 35.336$

$$lb = kg \times 2.20462$$



