# SC9D340D2



# Used for 250kVA generator

#### **OUTPOON** POWER RATING

Engine Speed	Type of	Engine	Power
rpm	Operation	kW	Ps
1500	Prime Power	228	310
	Standby Power	255	340

- -. 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	SC9D340D2	O Power	lit/hr
O Engine Type	In-line,4 strokes, water-cooled	25%	14.7
	4 valves, Turbo charged	50%	27.3
	air-to-air intercooled	75%	40.8
O Combustion type	Direct injection	100%	54.1
O Cylinder Type	Wet liner	110%	59.6
O Number of cylinders	6		
O Bore × stroke	114(4.49) × 144(5.67) mm(in.)		
O Displacement	8.82(538.2) lit.(in3)		
O Compression ratio	16.5:1		
O Firing order	1-5-3-6-2-4	© FUEL SYSTEM	
O Injection timing	8.5°BTDC	O Injection pump	Longkou in-line "P" type
O Dry weight	Approx.840 kg (1852 lb)	O Governor	Electric type
O Dimension	1578×778×1290 mm	O Feed pump	Mechanical type
$(L \times W \times H)$	(62.2×30.7×50.8 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

<ul><li>Fly wheel housing</li><li>Fly wheel</li></ul>	SAE NO.11.5	O Used fuel	Diesel fuel oil
• MECHANISM		<ul> <li>LUBRICATION SYSTI</li> </ul>	EM
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 0.30mm (0.0118 in.)	O Oil filter	Full flow, cartridge type
	Exhaust 0.55mm (0.0217 in.)	O Oil pan capacity	High level 25 liters ( 6.6 gal.) Low level 22 liters ( 5.8 gal.)
<ul><li>VALVE TIMING</li></ul>	Opening Close	O Angularity limit	Front down 25 deg. Front up 35 deg.
O Intake valve	29.5 deg. BTDC 42. 5deg. ABDC		Side to side 35 deg.
O Exhaust valve	69.5 deg. BBDC 34.5 deg. ATDC	O Lub. Oil	Refer to Operation Manual
<b>◎ COOLING SYSTEM</b>		<ul><li>ENGINEERING DATA</li></ul>	
O Cooling method	Fresh water forced circulation	O Water flow	200 liters/min @1,500 rpm
O Water capacity	12 liters ( 3.17 gal.)	O Heat rejection to coolant	20.35 kcal/sec @1,500 rpm
(engine only)		O Heat rejection to CAC	10.2 kcal/sec @1,500 rpm
O Pressure system	Max. 0.5 kg/cm2 ( 7.11 psi)	O Air flow	18.6 m3/min @1,500 rpm
O Water pump	Centrifugal type driven by belt	O Exhaust gas flow	41 m3/min @1,500 rpm
O Water pump Capacity	200 liters ( 52.8 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. 93°C	restrictions Intake system	3 kPa initial 6 kPa final
O Cooling fan	Blower type, plastic	Exhaust system	6 kPa max.
	762 mm diameter, 10 blades	O Max. permissible altitude	2,000 m
• Cooling air flow	$6.97 \text{ m}^3/\text{s}$	O Fan power	8 kW

### © ELECTRICAL SYSTEM

## **♦** CONVERSION TABLE

O Voltage regulator  $PS = kW \times 1.3596$  U.S. gal = lit.  $\times$  0.264

O Starting motor  $psi = kg/cm2 \times 14.2233 \hspace{1cm} kW = 0.2388 \hspace{1cm} kcal/s$ 

O Battery Voltage  $in^3 = lit. \times 61.02 \qquad lb/PS.h = g/kW.h \times 0.00162$ 

 $lb = kg \times 2.20462$ 



