

Model:SC9D340D2

OUTPOON POWER RATING

Engine Speed	Type of	Gross Engine Output	Net Engine Output	
rpm	Operation	kW	kW	
1500	Prime Power	228	219	
	Standby Power	255	246	

- -. 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 4 valves, Turbo charged air-to-air intercooled	25% 50% 75%	14.7 27.3 40.8		
O Combustion type	Direct injection	100%	54.1		
O Cylinder Type	Wet liner	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 www.sdecie.com wy	Counter clockwise viewed from www.sdec.com.cn service line 008621	O Opening pressure 60652315 engine@sdecie.com	250 kg/cm2 (3556 psi) sc_fw@sdec.com.cn		



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	Flywheel	O Fuel filter	Full flow, cartridge type		
O Fly wheel housing	SAE NO.2	O Used fuel	Diesel fuel oil		
O Fly wheel	SAE NO.11.5				
MECHANISM		 LUBRICATION SYSTE 	CM		
O Type	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.)	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.)		
VALVE TIMING		O Angularity limit	Front down 25 deg.		
	Opening Close		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		
◎ COOLING SYSTEM		© ENGINEERING DATA			
O Cooling method		O Water flow			
	Fresh water forced circulation		200 liters/min @ 1,500 rpm		
O Water capacity	12 liters (3.17 gal.)	O Heat rejection to coolant	22.9 kcal/sec @1,500 rpm		
(engine only)		O Heat rejection to CAC	14.3 kcal/sec @1,500 rpm		
O Pressure system	Max. 0.5 kg/cm2 (7.11 psi)	O Engine waste heat	7.2 kcal/sec @1,500 rpm		
O Water pump	Centrifugal type driven by belt	O Air flow	18.6 m3/min @1,500 rpm		
O Water pump Capacity	200 liters (52.8 gal.)/min	O Exhaust gas flow	41 m3/min @1,500 rpm		
	at 1,500 rpm (engine)	O Exhaust gas temp.	600 °C @1,500 rpm		
O Thermostat	Wax-pellet type Opening temp. 82°C Full open temp. 93°C	O Max. permissible restrictions Intake system	3 kPa initial		

service line 00862160652315

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www.sdecie.com www.sdec.com.cn



O Cooling fan
Blower type, plastic 6 kPa final

762 mm diameter, 10 blades Exhaust system 6 kPa max.

 \circ Cooling air flow \circ Max. permissible altitude \circ Max. permissible altitude \circ 2,000 m

O Fan power 8 kW

© ELECTRICAL SYSTEM

O Charging generator 28V×55A

Built-in type IC regulator

O Starting motor 24V×7.5kW

O Battery Voltage 24V

O Voltage regulator

O Battery Capacity 180 AH

♦ CONVERSION TABLE

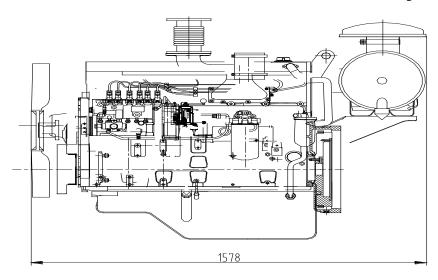
 $PS = kW \times 1.3596$ U.S. gal = lit. × 0.264

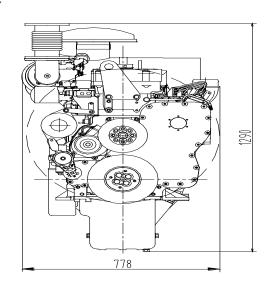
 $psi = kg/cm2 \times 14.2233 \hspace{1.5cm} kW = 0.2388 \; kcal/s$

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

 $hp = PS \times 0.98635$ $cfm = m3/min \times 35.336$

 $lb = kg \times 2.20462$





	Initial load acceptance			2nd load application				
	when engine reaches rated speed			Immediately after engine has recovered to rated speed				
	(15 seconds maximum after engine starts to crank)			(5 seconds after initial load application)				
Engine speed	Prime power %	Load kWm (kWe) Nett	Transient Frequency deviation %	Frequency recovery time seconds	Prime power %	Load kWm (kWe) Nett	Transient Frequency deviation %	Frequency recovery time seconds
1500 rev/min	40	123	€7	3	25	77	€7	3