

SC25G610D2

OUTPOOR POWER RATING

Engine Speed	Type of	Engine	Power
rpm	Operation	kW	Ps
1500	Prime Power	405	551
	Standby Power	445	605

- -. 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	SC25G610D2	O Power	lit/hr
O Engine Type	V-type,4 strokes, water-cooled	25%	30.9
	Turbo charged	50%	53.6
	air-to-air intercooled	75%	75.8
O Combustion type	Direct injection	100%	100.4
O Cylinder Type	Wet liner	110%	112.7
O Number of cylinders	12		
O Bore × stroke	135(5.32) ×150(5.9) mm(in.)		
O Displacement	25.8(1574) lit.(in3)		
O Compression ratio	16:1		
• Firing order	1-12-5-8-3-10-6-7-2-11-4-9	◎ FUEL SYSTEM	
O Injection timing	14.5°BTDC	O Injection pump	Yijie in-line "P" type
O Dry weight	Approx. 2080kg (4585 lb)	O Governor	Electric type
O Dimension	1930×1686×1872mm	O Feed pump	Mechanical type
$(L\times W\times H)$	(76×66.4×75.8 in.)	O Injection nozzle	Multi hole type
O Rotation	Counter clockwise viewed from	O Opening pressure	240kg/cm2 (3414 psi)
	Flywheel	O Fuel filter	Full flow, cartridge type

• Fly wheel housing		O Used fuel		
o Try wheel housing	SAE NO. 1/2	o osed ruei	Diesel fuel oil	
• Fly wheel	SAE NO.14			
o MECHANICM		• I UDDICATION SYSTEM	D.M.	
MECHANISM		 LUBRICATION SYSTI 	EM	
O Type	Over head valve	O Lub. Method	Fully forced pressure feed type	
O Number of valve	Intake 1, exhaust 1 per cylinder	Oil pump	Gear type driven by crankshaft	
O Valve lashes at cold	Intake 0.325mm (0.0128 in.)	O Oil filter	Full flow, cartridge type	
	Exhaust 0.375mm (0.0148 in.)	O Oil pan capacity	High level 65 liters (17.16 gal.) Low level 55 liters (14.52 gal.)	
• VALVE TIMING		O Angularity limit	Front down 25 deg.	
	Opening Close		Front up 35 deg.	
O Intake valve	20 deg. BTDC 48 deg. ABDC		Side to side 35 deg.	
O Exhaust valve	48 deg. BBDC 20 deg. ATDC	O Lub. Oil	Refer to Operation Manual	
© COOLING SYSTEM				
		© ENGINEERING DATA	4	
O Cooling method	Fresh water forced circulation	O Water flow	740 liters/min @1,500 rpm	
O Water capacity	48 liters (12.7 gal.)	O Heat rejection to coolant	79 kcal/sec @1,500 rpm	
(engine only)		O Heat rejection to CAC	38 kcal/sec @1,500 rpm	
O Pressure system	Max. 0.5 kg/cm2 (7.11 psi)	O Air flow	32 m3/min @1,500 rpm	
O Water pump	Centrifugal type driven by belt	O Exhaust gas flow	86 m3/min @1,500 rpm	
O Water pump Capacity	740 liters (195.36 gal.)/min	O Exhaust gas temp.	650 °C @1,500 rpm	
	at 1,500 rpm (engine)	O Max. permissible		
O Thermostat	Wax-pellet type	restrictions		
	Opening temp. 77°C	Intake system	3 kPa initial	
4	Full open temp. 90°C		6 kPa final	
O Cooling fan	Blower type,iron	Exhaust system	6 kPa max.	
	1100 mm diameter, 6 blades	O Max. permissible altitude	2,000 m	
O Cooling air flow	$12.76 \text{ m}^3 / \text{s}$	O Fan power	20 kW	

© ELECTRICAL SYSTEM

O Charging generator 28V×55A

O Voltage regulator Built-in type IC regulator

O Starting motor $24V \times 11kW$

O Battery Voltage 24V

O Battery Capacity 200 AH

CONVERSION TABLE

 $in. = mm \times 0.0394$

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

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

 $psi = kg/cm2 \times 14.2233$ kW = 0.2388 kcal/s

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

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

 $lb = kg \times 2.20462$



