WINTPOWER ®   SC25G610D2

◎ **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**

○ Engine Model	SC25G610D2
○ Engine Type	V-type,4 strokes, water-cooled Turbo charged air-to-air intercooled
○ Combustion type	Direct injection
○ Cylinder Type	Wet liner
○ Number of cylinders	12
○ Bore × stroke	135(5.32) ×150(5.9) mm(in.)
○ Displacement	25.8(1574) lit.(in3)
○ Compression ratio	16 : 1
○ Firing order	1-12-5-8-3-10-6-7-2-11-4-9
○ Injection timing	14.5°BTDC
○ Dry weight	Approx. 2080kg (4585 lb)
○ Dimension	1930×1686×1872mm
(L×W×H)	(76×66.4×75.8 in.)
○ Rotation	Counter clockwise viewed from Flywheel

◎ **FUEL CONSUMPTION**

○ Power	lit/hr
25%	30.9
50%	53.6
75%	75.8
100%	100.4
110%	112.7

◎ **FUEL SYSTEM**

○ Injection pump	Yijie in-line "P" type
○ Governor	Electric type
○ Feed pump	Mechanical type
○ Injection nozzle	Multi hole type
○ Opening pressure	240kg/cm2 (3414 psi)
○ Fuel filter	Full flow, cartridge type

- Fly wheel housing — SAE NO. 1/2

- Fly wheel — SAE NO.14

- Used fuel — Diesel fuel oil

◎ MECHANISM

- Type — Over head valve

- Number of valve — Intake 1, exhaust 1 per cylinder

- Valve lashes at cold
  - Intake   0.325mm (0.0128 in.)
  - Exhaust 0.375mm (0.0148 in.)

◎ VALVE TIMING

	Opening	Close
Intake valve	20 deg. BTDC	48 deg. ABDC
Exhaust valve	48 deg. BBDC	20 deg. ATDC

◎ COOLING SYSTEM

- Cooling method — Fresh water forced circulation

- Water capacity — 48 liters (12.7 gal.)

 (engine only)

- Pressure system — Max. 0.5 kg/cm2 (7.11 psi)

- Water pump — Centrifugal type driven by belt

- Water pump Capacity — 740 liters (195.36 gal.)/min

  at 1,500 rpm (engine)

- Thermostat — Wax–pellet type
  Opening temp. 77°C
  Full open temp. 90°C

- Cooling fan — Blower type,iron

  1100 mm diameter, 6 blades

- Cooling air flow — 12.76 m³ /s

◎ LUBRICATION SYSTEM

- Lub. Method — Fully forced pressure feed type

- Oil pump — Gear type driven by crankshaft

- Oil filter — Full flow, cartridge type

- Oil pan capacity — High level 65 liters (17.16 gal.)
  Low level 55 liters (14.52 gal.)

- Angularity limit — Front down 25 deg.
  Front up 35 deg.

  Side to side 35 deg.

- Lub. Oil — Refer to Operation Manual

◎ ENGINEERING DATA

- Water flow — 740 liters/min @1,500 rpm

- Heat rejection to coolant — 79 kcal/sec @1,500 rpm

- Heat rejection to CAC — 38 kcal/sec @1,500 rpm

- Air flow — 32 m3/min @1,500 rpm

- Exhaust gas flow — 86 m3/min @1,500 rpm

- Exhaust gas temp. — 650 °C @1,500 rpm

- Max. permissible

   restrictions
   Intake system — 3 kPa initial
   6 kPa final

   Exhaust system — 6 kPa max.

- Max. permissible altitude — 2,000 m

- Fan power — 20 kW

◎ ELECTRICAL SYSTEM

○ Charging generator

28V×55A

○ Voltage regulator

Built-in type IC regulator

○ Starting motor

24V×11kW

○ Battery Voltage

24V

○ Battery Capacity

200 AH

◆ CONVERSION TABLE

in. = mm × 0.0394

lb/ft = N.m × 0.737

PS = kW × 1.3596

U.S. gal = lit. × 0.264

psi = kg/cm2 × 14.2233

kW = 0.2388 kcal/s

in^3 = lit. × 61.02

lb/PS.h = g/kW.h × 0.00162

hp = PS × 0.98635

cfm = m3/min × 35.336

lb = kg × 2.20462