



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
○ Fly wheel housing	SAE NO. 0
○ Fly wheel	SAE NO. 18

◎ 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/cm ² (3414 psi)
○ Fuel filter	Full flow, cartridge type
○ 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.)

◎ 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

- (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

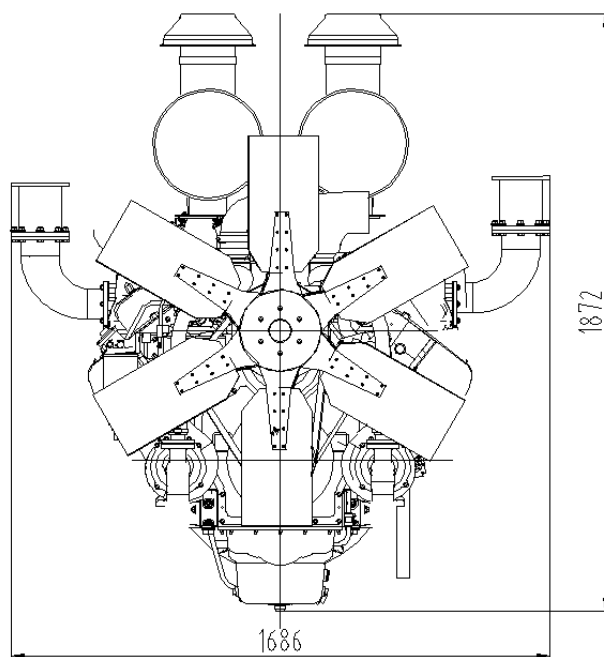
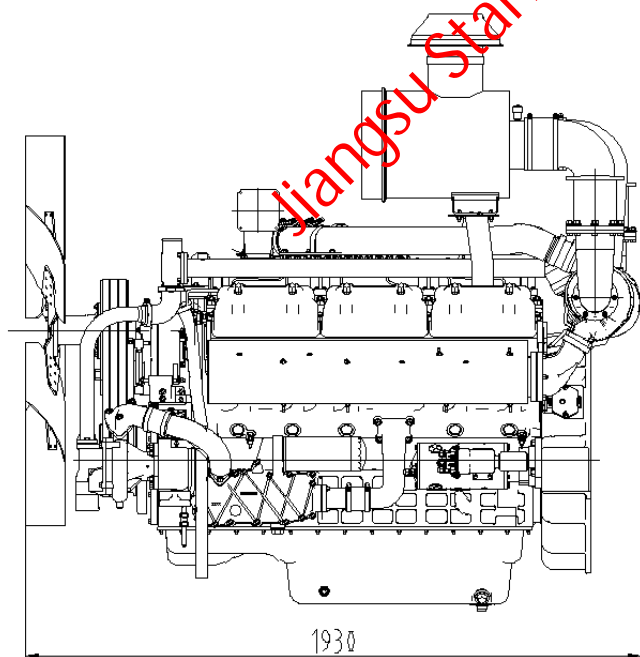
- Heat rejection to CAC 38 kcal/sec @ 1,500 rpm
- Air flow 32 m³/min @ 1,500 rpm
- Exhaust gas flow 86 m³/min @ 1,500 rpm
- Exhaust gas temp. 650 °C @ 1,500 rpm
- Max. permissible
restrictions
Intake system 3 kPa initial
6 kPa final
- Exhaust system 6 kPa max.
- Max. permissible altitude 2,000 m

◎ 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/cm ² × 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 = m ³ /min × 35.336
lb = kg × 2.20462	



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