6HTAA6.5-G22

◎ **Power**

Engine Speed	Type of Operation	Engine Power	Generator Power
r/min		kW	kVA
1500	Prime Power	140	150
	Standby Power	155	165
1800	Prime Power	150	160
	Standby Power	165	176

-. The engine performance is as per GB/T2820

-. Ratings are based on GB/T1147.1.

→**Prime Power：**--- There is no time limit in the case of variable load operation. In any 250hours of continuous operation period, the variable load of average work load less than 70%of the prime power. The operation time in the situation of 100%prime power no more than 500 hours. Permit 10%overload running1hours in any 12 hours of continuous operation period. The overload 10% power running time of every year no more than 25 hours..

→**Standby Power：**The annual total standby power load should be less than 80%and the average running time shall be less than200 hours. Among them the standby power point should be no more than 25 hours a year.。

◎ **SPECIFICATIONS**

○ Engine Model	6HTAA6.5-G22
○ Engine Type	In-line,4strokes,4valves,water-cooled, Turbo charged with aftercooler
○ Combustion type	Direct injection
○ Cylinder Type	Dry liner
○ Number of cylinders	6
○ Bore × stroke	105 × 124 mm
○ Displacement	6.5L
○ Compression ratio	16 : 1
○ Firing order	1-5-3-6-2-4
○ Injection timing	10.5°BTDC
○ Dry weight	600kg
○ Dimension	1343×741×1267 mm

◎ **FUEL CONSUMPTION**

○ Power	L/h（1500r/min）	L/h（1800r/min）
25%	9.9	11.3
50%	17.6	19.6
75%	25.2	27.9
100%	33.1	36.3
110%	36.8	40.4

◎ **FUEL SYSTEM**

○ Injection pump	Longkou in-line “P” type
○ Governor	Electric type
○ Feed pump	Mechanical type

(L×W×H)	
○ Rotation	SAE NO.3
○ Fly wheel housing	SAE NO.11.5(tooth number of gear:127)

◎ MECHANISM

○ Type	Overhead valve
○ Number of valve	Intake 2, exhaust 2 per cylinder
○ Valve lashes at cold	Intake 0.25mm Exhaust 0.50mm

◎ VALVE TIMING

	Opening	Close
○ Intake valve	20.9° BTDC	44.9° ABDC
○ Exhaust valve	51.7° BBDC	11.7° ATDC

◎ COOLING SYSTEM

○ Cooling method	Fresh water forced circulation
○ Water capacity (engine only)	9.6 liters
○ Lid Min. pressure	70kPa
○ Water pump	Centrifugal type driven by belt
○ Water pump Capacity	129L/min （1500r/min） 155L/min （1800r/min）
○ The maximum temp. of coolant in prime/ Standby power	104/100

○ Injection nozzle	Multi hole type
○ Opening pressure	250 kg/cm2
○ Fuel filter	Full flow, cartridge type
○ Used fuel	Diesel fuel oil

◎ 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 17.5 liters Low level 15 liters
○ Angularity limit	Front down 25 deg. Front up 35 deg. Side to side 35 deg.
○ Lub. Oil	Refer to Operation Manual

◎ ENGINEERING DATA

○ Heat rejection to coolant	14.1kcal/sec（1500r/min） 15.1kcal/sec（1800r/min）
○ Heat rejection to intercooler	8.8kcal/sec（1500r/min） 9.4kcal/sec（1800r/min）
○ Air flow	10.5m3/min （1500r/min） 13.5m3/min（1800r/min）
○ Exhaust gas flow	24.8m3/min（1500r/min） 31.7m3/min（1800r/min）
○ Exhaust gas temp.	600 °C

○ Thermostat	Wax–pellet type	○ Max. permissible restrictions	3 kPa initial 6 kPa final (need charge filter element)
	Opening temp. 82°C Full open temp. 95°C	Intake system	
○ Cooling fan	Blower type, plastic	Exhaust system	8 kPa max.
	620 mm diameter, 10blades	○ Max. permissible altitude	2000 m
		○ intercooler permissible	
	Power consumption 9kw	restrictions	8 kPa

◎ ELECTRICAL SYSTEM

○ Charging generator	28V×55A
○ Voltage regulator	Built-in type IC regulator
○ Starting motor	24V×6kW
○ Battery Voltage	24V
○ Battery Capacity	150 AH