6HTAA6.5-G33

◎ **Power**

Engine Speed r/min	Type of Operation	Engine Power kW	Generator Power kW	Generator Power kVA
1500	Prime Power	168	150	185
	Standby Power	185	165	200
1800	Prime Power	180	160	200
	Standby Power	198	175	220

-. 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-G33
○ 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	Electronic control
○ Dry weight	Approx. 600kg
○ Dimension (L×W×H)	1353×789×1033mm
○ Rotation	SAE NO.3
○ Fly wheel housing	SAE NO.11.5(tooth number of gear:127)

◎ FUEL CONSUMPTION

○ Power	L/h（1500r/min）	L/h（1800r/min）
25%	9.8	10.5
50%	19.6	21.1
75%	29.2	31.4
100%	39.2	42.1
110%	43.8	47.0

◎ FUEL SYSTEM

○ Injection pump	DENSO
○ Governor	DENSO
○ Feed pump	DENSO
○ Injection nozzle	Multi hole type
○ Opening pressure	180MPa
○ Fuel filter	Full flow, cartridge type
○ Used fuel	Diesel fuel oil

◎ MECHANISM

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

◎ 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

◎ 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
○ Thermostat	Wax–pellet type
	Opening temp. 82 ℃
	Full open temp. 95 ℃
○ Cooling fan	Blower type, plastic
	620 mm diameter, 10blades
	Power consumption 5kw
○ Cooling air flow	4.0m³ /s

◎ ENGINEERING DATA

○ Heat rejection to coolant	16.9kcal/sec（1500r/min）
	18.1kcal/sec（1800r/min）
○ Heat rejection to intercooler	10.6kcal/sec（1500r/min）
	11.3kcal/sec（1800r/min）
○ Air flow	11.9m3/min （1500r/min）
	14.7m3/min（1800r/min）
○ Exhaust gas flow	27.7m3/min（1500r/min）
	34.3m3/min（1800r/min）
○ Exhaust gas temp.	600 ℃
○ Max. permissible restrictions	3 kPa initial
	6 kPa final (need charge filter
Intake system	element)
Exhaust system	6 kPa max.
○ Max. permissible altitude	2000 m
○ intercooler permissible 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