

6HTAA6.5-G32

O Power

Engine Speed	Type of	Engine Power	Generator Power	
r/min	Operation	kW	kW	kVA
1500	Prime Power	140	120	150
	Standby Power	155	135	160
1800	Prime Power	150	130	160
	Standby Power	165	140	180

- -. 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 running 1 hours 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 than 200 hours. Among them the standby power point should be no more than 25 hours a year. ∘

© SPECIFICATIONS		◎ FUEL CONSUMPTION			
○ Engine Model	6HTAA6.5-G32	○ Power	L/h (1500r/min)	L/h (1800r/min)	
 Engine Type 	In-line,4strokes,4valves,water-cooled,	25%	8.1	8.8	
	Turbo charged with aftercooler	50%	16.4	17.6	
 Combustion type 	Direct injection	75%	24.3	26.2	
 Cylinder Type 	Dry liner	100%	32.6	35.1	
 Number of cylinders 	6	110%	36.7	39.2	
○ Bore ×stroke	105 ×124 mm				
 Displacement 	6.5L				
○ Compression ratio	16:1				
 Firing order 	1-5-3-6-2-4	◎ FUEL SYSTEM			
 Injection timing 	Electronic control	 Injection pump 		DENSO	
Dry weight	Approx. 600kg	○ Governor		DENSO	
Dimension	1353×789×1033mm	○ Feed pump		DENSO	
$(L\times W\times H)$		 Injection n 	iozzle	Multi hole type	
 Rotation 	SAE NO.3	 Opening p 	ressure	180MPa	
		 Fuel filter 		Full flow, cartridge type	
 Fly wheel housing 	SAE NO.11.5(tooth number of	• Used fuel		Diesel fuel oil	
	gear:127)				
○ MECHANISM		○ LUBRICATION SYSTEM			
○ Type	Overhead valve	○ Lub. Method		Fully forced pressure feed type	
 Number of valve 	Intake 2, exhaust 2 per cylinder	○ Oil pump		Gear type driven by crankshaft	
 Valve lashes at cold 	Intake 0.25mm	 Oil filter 		Full flow, cartridge type	
	Exhaust 0.50mm	Oil pan cap	pacity	High level 17.5 liters	
				Low level 15 liters	
○ VALVE TIMING		 Angularity 	limit	Front down 25 deg.	
	Opening Close			Front up 35 deg.	
 Intake valve 	20.9° BTDC 44.9° ABDC			Side to side 35 deg.	
• Exhaust valve	51.7° BBDC 11.7° ATDC	O Lub. Oil		Refer to Operation Manual	

© COOLING SYSTEM

○ Cooling method Fresh water forced circulation

• Water capacity 9.6 liters

(engine only)

○ 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

© ELECTRICAL SYSTEM

○ Charging generator 28V×55A

○ Voltage regulator Built-in type IC regulator

Starting motor 24V×6kW
 Battery Voltage 24V
 Battery Capacity 150 AH

© 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 24.2m3/min (1500r/min)

31.4m3/min (1800r/min)

○ Exhaust gas temp. 600 °C

• Max. permissible restrictions 3 kPa initial

6 kPa final (need charge filter

6 kPa max.

2000 m

Intake system element)

Exhaust system

O Max. permissible altitude

intercooler permissible

restrictions 8 kPa



