

6WTAA35-G31

O Power

Engine Speed	Type of	Engine Power		
r/min	Operation	kW	KVA	Ps
1500	Prime Power	882	1000	1200
	Standby Power	970	1100	1320

- -. The engine performance is as per GB/T2820
- -. Ratings are based on GB/T1147.1.

COOLING SYSTEM

O Cooling method

- → 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 CO	NSUMPTION	
• Engine Model	6WTAA35-G31	Power	L/h	
Engine Type	In-line,4strokes,,water-cooled,	25%	55.2	
	Turbo charged with aftercooler	50%	92.9	
Combustion type	Direct injection	75%	136.6	
Cylinder Type	Wet liner	100%	188.1	
Number of cylinders	6	110%	209.4	
○ Bore ×stroke	186 ×215 mm			
Oisplacement	35.1L			
Compression ratio	15:1			
○ Firing order	1-5-3-6-2-4	© FUEL SYSTEM		
☐ Injection timing	Electronic control	 Injection pun 	пр	Hengyang
Dry weight	Approx.4000kg	Governor		Hengyang
○ Dimension	2429×1387×2146mm	○ Feed pump		Electronic Control
$(L\times W\times H)$		○ Injection noz	zle	Multi hole type
○ Rotation	SAE NO.0			
		○ Fuel filter		Full flow, cartridge type
○ Fly wheel housing	SAE NO.18(tooth number of gear:164)	• Used fuel		Diesel fuel oil
○ MECHANISM	50	© LUBRICATION SYSTEM		
○ Type	Overhead valve	 Lub. Method 		Fully forced pressure feed typ
 Number of valve 	Intake 2, exhaust 2 per cylinder	 Oil pump 		Gear type driven by cranksha
 Valve lashes at cold 	Intake 0.4mm	 Oil filter 		Full flow, cartridge type
	Exhaust 0.45mm	 Oil pan capac 	eity	High level 100 liters
				Low level 75 liters
○ VALVE TIMING		 Angularity lin 	mit	Front down 25 deg.
	Opening Close			Front up 35 deg.
 Intake valve 	40° BTDC 48° ABDC			Side to side 35 deg.
 Exhaust valve 	54° BBDC 30° ATDC	 Lub. Oil 		Refer to Operation Manual

Fresh water forced circulation

© ENGINEERING DATA

36.8kcal/sec (1500r/min)

• Heat rejection to coolant

 Water capacity 	78 liters		
(engine only)		• Heat rejection to intercooler	22.7kcal/sec (1500r/min)
○ Water pump	Centrifugal type driven by belt	○ Air flow	64.9m3/min (1500r/min)
Water pump Capacity	1000L/min (1500r/min)	• Exhaust gas flow	162.6m3/min(1500r/min)
		 Exhaust gas temp. 	650 ℃
○ Thermostat	Wax-pellet type	 Max. permissible restrictions 	3 kPa initial
			6 kPa final (need charge filter
	Opening temp. 77 ℃	Intake system	element)
	Full open temp. 90 ℃		
• Cooling fan	Blower type, plastic	Exhaust system	11 kPa max.
	1371 mm diameter, 8blades	 Max. permissible altitude 	2000 m
		o intercooler permissible	
	Power consumption 30kw	restrictions	16 kPa

© ELECTRICAL SYSTEM

 Charging generator 2 	7V×55A
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○ Voltage regulator Built-in type IC regulator

 $\ \, \circ \ \, \text{Starting motor} \qquad \qquad 24V \times \! \! 13kW$

Battery Voltage Battery Capacity 24V 200 AH