



6WTAA35-G32

◎ Power

Engine Speed r/min	Type of Operation	Engine Power	
		kW	Ps
1500	Prime Power	818	1112
	Standby Power	900	1224

-. 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 1hours 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

○ Engine Model	6WTAA35-G32
○ Engine Type	In-line, 4 strokes, water-cooled, Turbo charged with aftercooler
○ Combustion type	Direct injection
○ Cylinder Type	Wet liner
○ Number of cylinders	6
○ Bore × stroke	186 × 215 mm
○ Displacement	35.1L
○ Compression ratio	15 : 1
○ Firing order	1-5-3-6-2-4
○ Injection timing	Electronic control
○ Dry weight	Approx. 4000kg
○ Dimension (L×W×H)	2429×1387×2146mm
○ Rotation	SAE NO.0
○ Fly wheel housing	SAE NO.18(tooth number of gear: 164)

◎ MECHANISM

○ Type	Overhead valve
○ Number of valve	Intake 2, exhaust 2 per cylinder
○ Valve lashes at cold	Intake 0.4mm Exhaust 0.45mm

◎ VALVE TIMING

	Opening	Close
○ Intake valve	40° BTDC	48° ABDC
○ Exhaust valve	54° BBDC	30° ATDC

◎ COOLING SYSTEM

○ Cooling method	Fresh water forced circulation
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◎ FUEL CONSUMPTION

○ Power	L/h
25%	50.9
50%	84.6
75%	119.3
100%	168.4
110%	189.1

◎ FUEL SYSTEM

○ Injection pump	Hengyang
○ Governor	Hengyang
○ Feed pump	Electronic Control
○ Injection nozzle	Multi hole type
○ 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 100 liters Low level 75 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	36.8kcal/sec (1500r/min)
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○ Water capacity (engine only)	78 liters	○ Heat rejection to intercooler	22.7kcal/sec (1500r/min)
○ Water pump	Centrifugal type driven by belt	○ Air flow	64.9m ³ /min (1500r/min)
○ Water pump Capacity	1000L/min (1500r/min)	○ Exhaust gas flow	162.6m ³ /min (1500r/min)
○ Thermostat	Wax-pellet type	○ Exhaust gas temp.	650 °C
	Opening temp. 77 °C	○ Max. permissible restrictions	3 kPa initial 6 kPa final (need charge filter element)
	Full open temp. 90 °C	Intake system	
○ Cooling fan	Blower type, plastic 1371 mm diameter, 8blades	Exhaust system	11 kPa max.
	Power consumption 30kw	○ Max. permissible altitude	2000 m
		○ intercooler permissible restrictions	16 kPa

◎ ELECTRICAL SYSTEM

○ Charging generator	27V×55A
○ Voltage regulator	Built-in type IC regulator
○ Starting motor	24V×13kW
○ Battery Voltage	24V
○ Battery Capacity	200 AH