6WTAA35-G310

◎ POWER RATING

Engine Speed	Type of Operation	Engine	Genset	
r/min		kW	kW	kVA
1500	Prime Power	1018	900	1125
	Standby Power	1120	1000	1250

-. The engine performance is as per GB/T2820.

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

---Prime power is available for an unlimited number of hours per year in a variable load application. The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.

---Standby power is available in the event of a utility power outage or under test conditions for up to 200 hours of operation per year. The permissible average power output over 24 hours of operation shall not exceed 80% of the standby power rating.

◎ SPECIFICATIONS

○ Engine Model	6WTAA35-G310
○ Engine Type	In-line,4 strokes, water-cooled 4 valves, Turbo charged air-to-air intercooled
○ Combustion type	Direct injection
○ Cylinder Type	Dry liner
○ Number of cylinders	6
○ Bore × stroke	186 × 215mm
○ Displacement	35.1 L
○ Compression ratio	13.5 : 1
○ Firing order	1-5-3-6-2-4
○ Injection timing	Electric type
○ Dry weight	4000kg
○ Dimension(L×W×H)	2429×1422×2019 mm
○ Rotation	CCW viewed from flywheel
○ Fly wheel housing	SAE NO.0
○ Fly wheel	SAE NO.18

◎ FUEL CONSUMPTION

○ Power	lit/hr
25%	71.4
50%	125.7
75%	190
100%	259.2
110%	288.1

◎ FUEL SYSTEM

○ Injection pump	Hengyang W28C
○ Governor	Electric type
○ Feed pump	Mechanical type
○ Injection nozzle	Multi hole type
○ Opening pressure	290kg/cm2
○ Fuel filter	Full flow, cartridge type
○ Used fuel	Diesel fuel oil

◎ MECHANISM

○ Type	Over head 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
○ Water capacity	78 L(engine only)
○ Pressure system	Max. 0.5 kg/cm2
○ Water pump	Centrifugal type driven by belt
○ Water pump Capacity	1000L/min at 1500r/min
○ Thermostat	Wax–pellet type
	Opening temp. 77°C Full open temp. 90°C
○ Cooling fan	Blower type, plastic
	1422 mm diameter, 8 blades

○ Max. coolant temperature at standby / prime power

102/98℃

◎ 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/ Low level 100L/75L
○ Angularity limit	Front down 25°
	Front up35°
	Side to side 35°
○ Lub. Oil	Refer to Operation Manual

◎ ENGINEERING DATA

○ Heat rejection to coolant	132kcal/sec /1,500 rpm
○ Heat rejection to CAC	82kcal/sec /1,500 rpm
○ Engine waste heat	2×37.1m3/min /1,500 rpm
○ Exhaust gas flow	182.6m3/min /1,500 rpm
○ Exhaust gas temp.	650 °C
○ Max. permissible restrictions	
Intake system	3 kPa initial / 6 kPa final
Exhaust system	11 kPa max.
○ Intercooler resistance limit	14 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