6ETAA11.8-G32

◎ **Power**

Engine Speed r/min	Type of Operation	Engine Power kW	Generator Power kW	Generator Power kVA
1500	Prime Power	280	250	312.5
	Standby Power	308	280	350
1800	Prime Power	307	280	350
	Standby Power	338	300	375

-. 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	6ETAA11.8-G32
○ Engine Type	In-line,4strokes,4valves,water-cooled, Turbo charged with aftercooler
○ Combustion type	Direct injection
○ Cylinder Type	Wet liner
○ Number of cylinders	6
○ Bore ×stroke	128 ×153mm
○ Displacement	11.8 L
○ Compression ratio	17 : 1
○ Firing order	1-5-3-6-2-4
○ Injection timing	Electronic control
○ Dry weight	Approx. 1164kg
○ Dimension(L×W×H)	1787×918×1287 mm
○ Rotation	Anti-clockwise(face to flywheel)
○ Fly wheel housing	SAE NO.1
○ Flywheel	SAE NO.14(tooth number of gear:133)

◎ FUEL CONSUMPTION

○ Power	L/h（1500r/min）	L/h（1800r/min）
25%	16.3	17.9
50%	32.7	36.1
75%	48.7	53.5
100%	65.3	71.8
110%	72.9	80.2

◎ FUEL SYSTEM

○ Injection pump	BOSH
○ Governor	Electronic
○ Feed pump	Electronic
○ Injection nozzle	Multi hole type
○ Opening pressure	Electronic
○ 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 0.40mm
Exhaust 0.65mm

◎ VALVE TIMING

○ Angularity limit

	Opening	Close
○ Intake valve	15° BTDC	30° ABDC
○ Exhaust valve	45° BBDC	13° ATDC

◎ 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 41liters
	Low level 33liters
	Front down 25 deg.
	Front up 35 deg.
	Side to side 35 deg.
○ Lub. Oil	Refer to Operation Manual

◎ COOLING SYSTEM

○ Cooling method	Fresh water forced circulation
○ Water capacity (engine only)	23.2 liters
○ Lid Min. pressure	70kPa
○ Water pump	Centrifugal type driven by belt
○ Water pump Capacity	515L/min （1500r/min） 618L/min （1800r/min）
○ Thermostat	Wax–pellet type Opening temp. 85℃ Full open temp. 95℃
○ Cooling fan	Blower type, plastic 843 mm diameter, 8blades Power 8kw
○ The maximum temp. of coolant in prime/ Standby power	104/100

◎ ENGINEERING DATA

○ Heat rejection to coolant	28.2 kcal/sec（1500r/min） 30.9 kcal/sec（1800r/min）
○ Heat rejection to intercooler	17.6 m3/min （1500r/min） 19.3m3/min （1800r/min）
○ Intake flow	21.6m3/min （1500r/min） 23.7m3/min（1800r/min）
○ Exhaust flow	51.8m3/min（1500r/min） 54.2m3/min（1800r/min）
○ Exhaust gas temp.	600 ℃
○ Max. permissible restrictions	3 kPa initial
Intake system	6 kPa final (need charge filter element)
Exhaust system	10 kPa max.
○ Max. permissible altitude	2000 m
○ intercooler permissible restrictions	10 kPa

◎ ELECTRICAL SYSTEM

○ Charging generator	28V×70A
○ Voltage regulator	Built-in type IC regulator
○ Starting motor	24V×5.5kW
○ Battery Voltage	24V
○ Battery Capacity	180 AH