

## O Power

Engine Speed	Type of	Gross Engine Output	Net Engine Output
r/min	Operation	kW	kW
1500	Prime Power	360	320
	Standby Power	400	350
1800	Prime Power	360	320
	Standby Power	400	350

-. 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..

 $\rightarrow$  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.

**©** FUEL CONSUMPTION

## **©** SPECIFICATIONS

• Exhaust valve

• Engine Model	6ETAA12.8-G32/G32.1	• Power	L/h (1500r/min)	L/h (1800r/min)
• Engine Type	In-line,4strokes,4valves,water-cooled,	25%	24.7	25.8
	Turbo charged with aftercooler	50%	45.0	50.2
• Combustion type	Direct injection	75%	70.3	77.6
• Cylinder Type	Wet liner	100%	96.1	100.3
• Number of cylinders	6	110%	100.7	113.3
$\circ$ Bore $\times$ stroke	130 ×161mm			
• Displacement	12.8 L			
• Compression ratio	17:1			
• Firing order	1-5-3-6-2-4	◎ FUEL SYSTEM		
• Injection timing	Electronic control	• Injection pump		BOSH
• Dry weight	Approx. 1164kg	• Governor		Electric type
• Dimension	1787×919×1287mm	• Feed put	mp	Mechanical type
$(L \times W \times H)$		• Injection	n nozzle	Multi hole type
• Rotation	SAE NO.1	• Opening	pressure	250 kg/cm2
		○ Fuel filte	er	Full flow, cartridge type
○ Fly wheel housing	SAE NO.14(tooth number of	• Used fue	el	Diesel fuel oil
	gear:133)			
O MECHANISM		◎ LUBRICATION SYSTEM		
• Туре	Overhead valve	○ Lub. Me	thod	Fully forced pressure feed type
• Number of valve	Intake 2, exhaust 2 per cylinder	• Oil pum	р	Gear type driven by crankshaft
○ Valve lashes at cold	Intake 0.40mm	• Oil filter		Full flow, cartridge type
	Exhaust 0.65mm	• Oil pan o	capacity	High level 36liters
				Low level 31 liters
$\bigcirc$ VALVE TIMING		• Angulari	ity limit	Front down 25 deg.
	Opening Close			Front up 35 deg.
○ Intake valve	$15^{\circ}$ BTDC $30^{\circ}$ ABDC			Side to side 35 deg.

○ Lub. Oil

Refer to Operation Manual

13° ATDC

 $45^{\circ}$  BBDC

© COOLING SYSTEM		© ENGINEERING DATA	
• Cooling method	Fresh water forced circulation	○ Heat rejection to coolant	34.2 kcal/sec (1500r/min)
• Water capacity	23 liters		32.5 kcal/sec (1800r/min)
(engine only)		○ Heat rejection to intercooler	22.7 kcal/sec (1500r/min)
○ Lid Min. pressure	70kPa		21.5 kcal/sec (1800r/min)
• Water pump	Centrifugal type driven by belt	○ Exhaust gas temp.	600 °C
• Water pump Capacity	600L/min (1500r/min)	• Max. permissible restrictions	3 kPa initial
			6 kPa final (need charge filter
	700L/min (1800r/min)	Intake system	element)
• The maximum temp. of coolant in prime/ Standby			
power	104/100	Exhaust system	10 kPa max.
• Thermostat	Wax-pellet type	<ul> <li>Max. permissible altitude</li> <li>intercooler permissible</li> </ul>	2000 m
	Opening temp. 85 °C	restrictions	9 kPa
	Full open temp. 95 °C		
• Cooling fan	Blower type, plastic	• Cooling air flow	$10.8 \text{m}^3/\text{s}$
	1000 mm diameter, 8blades		
	Power consumption 15kw		

## ◎ ELECTRICAL SYSTEM

• Charging generator	28V×70A				
○ Voltage regulator	Built-in type	IC regulator			
○ Starting motor	24V×5.5kW				
<ul> <li>Battery Voltage</li> </ul>	24V				
• Battery Capacity	180 AH				
◆ 换算表					
in. = mm $\times 0.0394$					
$\mathbf{PS} = \mathbf{kW} \times 1.3596$					
$psi = kg/cm2 \times 14.2233$					
$in3 = L \times 61.02$					
$hp = PS \times 0.98635$					
$lb = kg \times 2.20462$					

 $lb/ft = N.m \times 0.737$ U.S. gal = L × 0.264 kW = 0.2388 kcal/s lb/PS.h = g/kW.h × 0.00162 cfm = m3/min × 35.336



