

# 6KTAA25-G33

#### O Power

Engine Speed	Type of	Engine Power		Generator Power	
r/min	Operation	kW	Ps	kW	kVA
1500	Prime Power	622	846	560	700
	Standby Power	684	930	616	770

-. 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 1 hours 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.

#### $\bigcirc$ SPECIFICATIONS

#### ◎ FUEL CONSUMPTION

<ul> <li>Engine Model</li> </ul>	6KTAA25-G33	• Power L/h (1500r/min)	
• Engine Type	In-line,4strokes, water-cooled,	25% 44	
	Turbo charged with aftercooler	50% 77	
• Combustion type	Direct injection	75% 113	
• Cylinder Type	Cylinder Type Wet liner		
• Number of cylinders	Number of cylinders 6		
$\circ$ Bore $\times$ stroke	170 ×185 mm		
• Displacement	25.18L		
• Compression ratio	14.5 : 1		
• Firing order	1-5-3-6-2-4	◎ FUEL SYSTEM	
• Injection timing	Electronic control	• Injection pump	Liebherr
• Dry weight	Approx.2700kg	• Governor	Liebherr
• Dimension	2055×1241×1936mm	○ Feed pump	Electronic Control
$(L \times W \times H)$		• Injection nozzle	Multi hole type
• Rotation	SAE NO.0		
		○ Fuel filter	Full flow, cartridge type
○ Fly wheel housing	SAE NO.18(tooth number of	○ Used fuel	Diesel fuel oil
	gear:143)		
O MECHANISM		O LUBRICATION SYSTI	EM
○ Type	Overhead valve	○ Lub. Method	Fully forced pressure feed type
• Number of valve	Intake 2, exhaust 2 per cylinder	<ul> <li>Oil pump</li> </ul>	Gear type driven by crankshaft
○ Valve lashes at cold	Intake 0.35mm	○ Oil filter	Full flow, cartridge type
	Exhaust 0.60mm	• Oil pan capacity	High level 75 liters
			Low level 45 liters
$\bigcirc$ VALVE TIMING		• Angularity limit	Front down 12deg.
	Opening Close		Front up 15 deg.
• Intake valve	25° BTDC 57° ABDC		Side to side 35 deg.

**© COOLING SYSTEM** 

• Cooling method

• Exhaust valve

Fresh water forced circulation

 $16^{\circ}$  ATDC

 $66^{\circ}$  BBDC

### **© ENGINEERING DATA**

Refer to Operation Manual

○ Lub. Oil

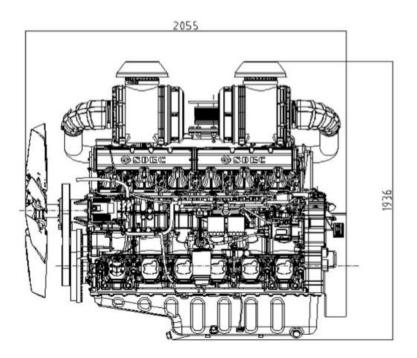
• Water capacity (engine only)	55 liters		
<ul><li>Water pump</li><li>Water pump Capacity</li></ul>	Centrifugal type driven by belt 880L/min (1500r/min)	$\circ$ Air flow	3210m3/min (1500r/min)
		○ Exhaust gas flow	8330m3/min (1500r/min)
		• Exhaust gas temp.	500 °C
• Thermostat	Wax-pellet type	• Max. permissible restrictions	2.5 kPa initial
			6.2 kPa final (need charge filter
	Opening temp. 77 °C	Intake system	element)
	Full open temp. 90 °C		
• Cooling fan	Blower type, plastic	Exhaust system	10 kPa max.
	1220 mm diameter, 8blades	• Max. permissible altitude	2000 m
		○ intercooler permissible	
	Power consumption 22kw	restrictions	10 kPa

## ◎ ELECTRICAL SYSTEM

28V×55A	
Built-in type	IC regulator
24V×9kW	
24V	
200 AH	
	Built-in type 24V ×9kW 24V

# ◆ 换算表

in. = mm  $\times 0.0394$ PS = 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 ×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

