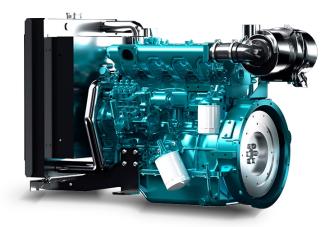
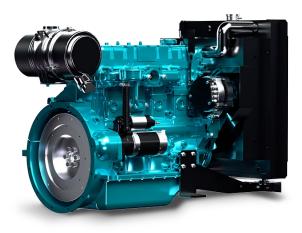
## AS4100-Z0221

81 kW@1500 rpm | 88 kW@1800 rpm







Engine Speed (r/min)	Type of Operation	Engine Power (kW)	Generator Power (kW)
1500	Prime Power	74	60
1500	Standby Power	81	66
1800	Prime Power	80	65
1800	Standby Power	88	71.5

• The engine per formance 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 80% 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**

AS4100-Z0221
In-line, 4strokes, water-cooled, Turbo charged inter-cooled
Direct injection
Wet liner
4
105 × 118mm
4.1 L
18: 1
1-3-4-2
14-17°
Approx. 365kg
927×627×959mm
Counter clockwise viewed from Flywheel
SAE NO.3#
SAE NO.11.5#

Mechanism	
Туре	Over head valve
Number of valve	Intake 1, exhaust 1 per cylinder
Valve lashes at cold	Intake 0.35mm Exhaust 0.45mm

Fuel System	
Injection pump	KangDa
Governor	Electric type
Feed pump	Mechanical type
Injection nozzle	Multi hole type
Opening pressure	24Mpa
Fuel filter	Full flow, cartridge type
Used fuel	Diesel fuel oil

Valve Timing		
	Opening	Close
Intake valve	18° BTDC	54° ABDC
Exhaust valve	62° BBDC	18° ATDC

Fuel Consumption		
Power	L/h (1500r/min)	L/h (1800r/min)
25%	5.5	6.1
50%	10	10.9
75%	14.6	16
100%	18.7	20.5
110%	20.4	22.4

# AS4100-Z0221

81 kW@1500 rpm | 88 kW@1800 rpm



### 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 7.5 liters Low level 6.5 liters
Angularity limit	Front down 25° Front up 35° Side to side 35°

### **Cooling System**

3		
Cooling m	nethod	Fresh water forced circulation
Water cap	pacity (engine only)	8.54 liters
Lid Min. p	ressure	70kPa
Water pum	q	Centrifugal type driven by belt
Water pum	p Capacity	TBA (1500r/min) TBA (1800r/min)
Thermosta	ıt	Wax–pellet type Opening temp. 72°C Full open temp. 82°C
Cooling far	ı	Blower type, plastic 490 mm diameter, 7 blades
Cooling far	n power consumption	3 kw/1500r/min 3.5 kw/1800r/min
The maxim of coolant power	ium temp. in prime / Standby	104/100°C



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All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

#### Distributed by

Electrical System	
Charging generator	14V×35A
Voltage regulator	Built-in type IC regulator
Starting motor	12V×3.8kW
Battery Voltage	12V
Battery Capacity	110~120 AH
Engineering Data	
Heat rejection to coolant	8.0 kcal/sec (1500r/min) 8.6 kcal/sec (1800r/min)
Heat rejection to intercooler	5 kcal/sec(1500r/min) 5.4 kcal/sec(1800r/min)
Engine air flow	7.7 m ³/min(1500r/min) 9.1 m ³/min(1800r/min)
Exhaust gas flow	20.8 m <sup>3</sup> /min(1500r/min) 24.6 m <sup>3</sup> /min(1800r/min)
Exhaust gas temp	550 °C
Max. permissible restrictions	3 kPa initial
Intake system	4 kPa initial
Exhaust system	10 kPa max
Max. permissible altitude	N/A
intercooler permissible restrictions	10 kPa

### **Power Derate**

All data is based on the engine operating without air compressor, fan, generator, fan, optional equipment and driven components .

All data is based on the engine operating with 3.7 kPa inlet air restriction , 10 kPa exhaust restriction and with 13 kPa Inter-cooled implement differential pressure.

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 of 99kPa baiometric

press, 298K inlet air temperature, and 1kPa water vapor pressure .

1500rpm Altitude Derate Standby Power 80 70 55 C Ambler Derate of Rated Power 0 20 09 0 09 0 09 0 09 0 09 50C Ambient OC Ambient ×10 0 500 1000 1500 2000 2500 3000 3500 Altitude (meters)

