

• Model: AS4300

120kW@1500 rpm | 120kW@1800 rpm

Engine code: H5702

Engine Spee	d Type of Operation	Engine Power k W	Generator Power kva
1500	Prime Power	120	138
1500	Standby Powe	r 132	150
1800	Prime Power	120	138
1800	Standby Powe	er 132	150

•	The	engine	nerforr	nance is a	s ner (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 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	
Engine Model	AS4300
	In-line,
	4 strokes,
Engine Type	4 valves,
	water-cooled,
	Turbo charged
Combustion type	Direct injection
Cylinder Type	Dry liner
Number of cylinders	4
Bore × stroke	105× 124mm
Displacement	4.3 L
Compression ratio	17.3 : 1
Firing order	1-3-4-2
Injection timing	10°BTDC
Dry weight	Approx. 430kg
Dimension (LxWxH)	1018 ×716×989 mm
Rotation	SAE NO.3
Fly wheel housing	SAE NO.11.5
	(tooth number of gear: 127)

Over head valve
Intake 2, exhaust 2 per cylinder
Intake 0.25mm
Exhaust 0.50mm

Valve Timing			
	Opening	Close	
Intake valve	20.9° BTDC	44.9° ABDC	
Exhaust valve	51.7° BBDC	11.7° ATDC	

Fuel Consumption				
Power	L/h (1500r/min)	L/h (1800r/min)		
25%	5.5	6.1		
50%	9.9	11.2		
75%	14.3	16.4		
100%	19.5	21.6		
110%	21.8	24.0		

Fuel System	
Injection pump	Beiyou in-line "AD" type
Governor	Electronic regulator
Feed pump	Mechanical type
Injection nozzle	Multi hole type
Opening pressure	250 kg/cm2
Fuel filter	Full flow, cartridge type
Used fuel	Diesel fuel oil

Lubrication Systen	n
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 13 liters
	Low level 11 liters
Angularity limit	Front down 25 deg
	Front up 35 deg
	Side to side 35 deg
Lub. Oil	Refer to Operation Manual

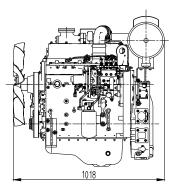


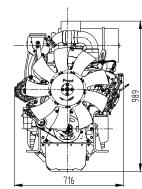
Cooling System	
Cooling method	Fresh water forced circulation
Water capacity	6.8 liters
(engine only)	
Lid Min. pressure	70kPa
Water pump	Centrifugal type driven by belt
Water pump Capacity	155L/min (1500r/min)
	186L/min (1800r/min)
The maximum temp.	
of coolant in prime/	104/100
Standby power	
	Wax-pellet type
Thermostat	Opening temp. 82°C
	Full open temp. 95°C
Cooling fan	Blower type, plastic
	500 mm diameter, 7 blades
	Power consumption 2kw
Cooling air flow	2.3 m³/s

Electrical System	
Charging generator	24V×55A
Voltage regulator	Built-in type IC regulator
Starting motor	24V×4.5kW
Starting motor	24V
Battery Capacity	120 AH

Engineering Data	
Heat rejection to coolant	7.8kcal/sec (1500r/min)
	8.6kcal/sec (1800r/min)
Air flow	5.6m3/min (1500r/min)
	7.2m3/min (1800r/min)
Exhaust gas flow	13.2m3/min (1500r/min)
	17.0m3/min (1800r/min)
Exhaust gas temp	600 °C
Max. permissible	3 kPa initial
restrictions	
Intake system	6 kPa final (need
	charge filter element)
Exhaust system	6 kPa max
Max. permissible altitude	2000 m

Dimension







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