

# •Model: AS4300

Engine code: H5699

78 kW@1500 rpm | 86 kW@1800 rpm

Engine Spee	ed Type of Er Operation	igine Power k <b>W</b>	Generator Power kva
1500	Prime Power	78	85
1500	Standby Power	86	94
1800	Prime Power	86	100
1800	Standby Power	95	110

- 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 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 (L×W×H)	1018 ×716×989 mm
Rotation	SAE NO.3
Fly wheel housing	SAE NO.11.5
	(tooth number of gear: 127)

Mechanism	
Туре	Over head valve
Number of valve	Intake 2, exhaust 2 per cylinder
Valve lashes at cold	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 Cons	Fuel Consumption		
Power	L/h (1500r/min)	L/h (1800r/min)	
25%	4.9	5.7	
50%	8.1	9.1	
75%	11.8	13.0	
100%	15.1	17.0	
110%	16.7	18.9	

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 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 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	

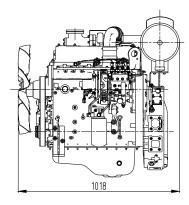


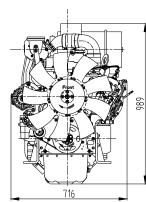
Cooling System	
Cooling method	Fresh water forced circulation
Water capacity	6.8 liters
(engine only)	
Lid Min. pressure	70kPa
Water pump	Centrifugal type driven by belt
Water pump Capacity	155L/min (1500r/min)
	186L/min (1800r/min)
The maximum temp.	
of coolant in prime/	104/100
Standby power	
	Wax-pellet 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	6.2kcal/sec (1500r/min)
	6.7kcal/sec (1800r/min)
Air flow	4.8m3/min (1500r/min)
	6.2m3/min (1800r/min)
Exhaust gas flow	11.5m3/min (1500r/min)
	14.7m3/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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