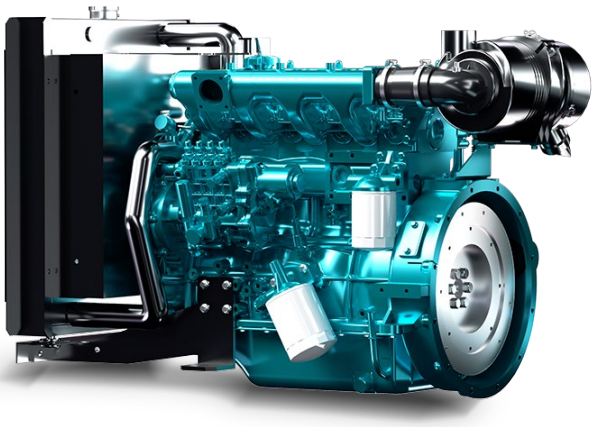
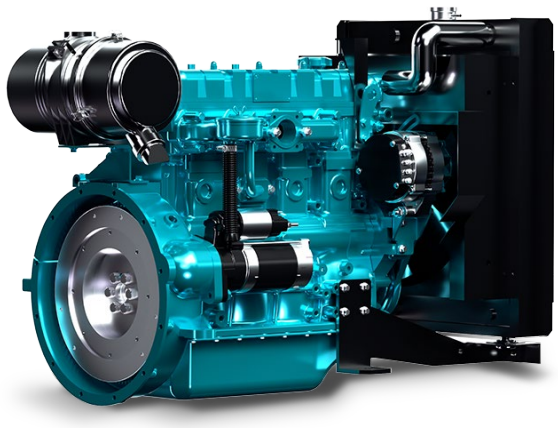
AS3500-G21

54 kW@1500 rpm | 66 kW@1800 rpm

AGG Power Solutions





Engine Speed (r/min)	Type of Operation	Engine Power (kW)	Generator Power (kW)
1500	Prime Power	49	40
1500	Standby Power	54	44
1800	Prime Power	60	50
1800	Standby Power	66	55

· 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

Engine Model	AS3500-G21
Engine Type	In-line, 4strokes, water-cooled Turbo charged
Combustion type	Direct injection
Cylinder Type	Wet liner
Number of cylinders	4
Bore × stroke	98 × 115mm
Displacement	3.5 L
Compression ratio	18: 1
Firing order	1-3-4-2
Injection timing	14-17 °
Dry weight	Approx. 285 kg
Dimension (L×W×H)	848×608×909mm
Rotation	CCW viewed from flywheel
Fly wheel housing	SAE NO.3#
Fly wheel	SAE NO.11.5# (tooth number 120)

Mechanism

Type	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	15° BTDC	30° ABDC
Exhaust valve	45° BBDC	13° ATDC

Fuel Consumption

Power	L/h（1500r/min）	L/h（1800r/min）
25%	4.1	5.2
50%	6.6	8.4
75%	9.4	12.0
100%	12.3	15.7
110%	13.7	17.5

AS3500-G21

54 kW@1500 rpm | 66 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 liters Low level 6 liters
Angularity limit	Front down 25° Front up 35° Side to side 35°

Cooling System

Cooling method	Fresh water forced circulation
Water capacity (engine only)	5.75 liters
Lid Min. pressure	70kPa
Water pump	Centrifugal type driven by belt
Water pump Capacity	TBA
Thermostat	Wax–pellet type Opening temp. 72°C Full open temp. 82°C
Cooling fan	Blower type, plastic 490 mm diameter, 7 blades
Cooling fan power consumption	2.5 kw/1500r/min 2.9 kw/1800r/min
The maximum temp. of coolant in prime / Standby power	104/100°C

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	5.3 kcal/sec （1500r/min） 6.5 kcal/sec （1800r/min）
Heat rejection to intercooler	N/A
Engine air flow	5.2 m ³/min（1500r/min） 6.3 m ³/min（1800r/min）
Exhaust gas flow	14.1 m ³/min（1500r/min） 17.1 m ³/min（1800r/min）
Exhaust gas temp	480 °C
Max. permissible restrictions	
Intake system	3kPa initial/4kPa final
Exhaust system	10 kPa max
Max. permissible altitude	N/A
intercooler permissible restrictions	N/A

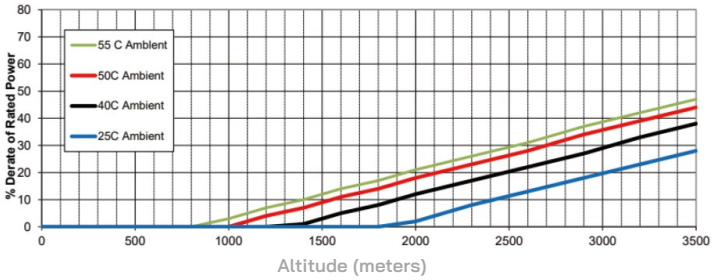
Power Derate

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

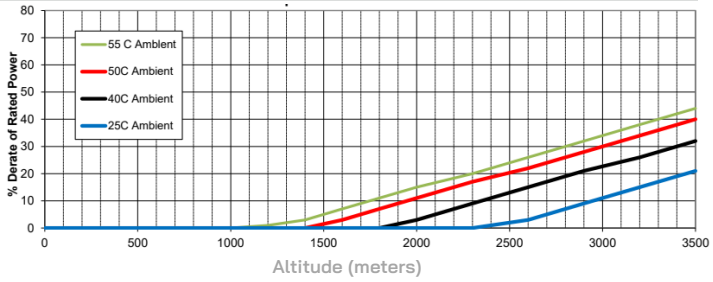
All data is based on the engine operating with 3.7 kPa inlet air restriction , 10 kPa exhaust restriction and with 13 kPa Inter-cooled implement differential pressure.

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



1500rpm Altitude Derate Prime Power



AGG UK | AGG China | AGG USA | AGG UAE
info@aggpower.co.uk | www.aggpower.co.uk

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