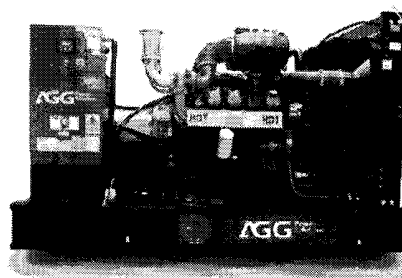


■ Model: AD500



■ Generator Specification

Service	PRP ⁽¹⁾	ESP ⁽²⁾
Power (kVA)	563	625
Power (kW)	450	500
Rated speed (r.p.m)	1800	
Standard voltage (V)	400/230V	
Rated at power factor(cos phi)	0.8	



AGG Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12801: 2010

(1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

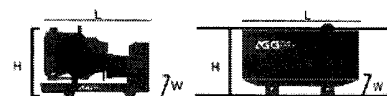
According to ISO 8528-1, it is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Powers Voltage (V)	ESP		PRP		Standby Amps
	KVA	KW	KVA	KW	
480/277	625	500	563	450	751.8
440/254	625	500	563	450	820.1
400/230	625	500	563	450	902.1
380/220	625	500	563	450	949.6
220/127	625	500	563	450	1640.2

Performance Data		
Model	AD500	
Engine brand		
Engine model	DP158LDS	
Speed control type	Electronic	
Phase	3	
Control system	Digital	
Starter motor voltage	24V	
Frequency	60HZ	
Engine speed (RPM)	1800	
Fuel Consumption (L/H)	100% standby power	139.6
	100% prime power	127.1
	75% prime power	92.9
	50% prime power	62.3

Standard reference Conditions

Note: Standard reference condition 25°C(77°F) air inlet temp, 100m(328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2



Dimension and Weight		
Dimension	Open	Silent
Length (L)	3035mm	4470mm
Width (W)	1640mm	1850mm
Height (H)	2115mm	2520mm
Net Weight	-	-
Fuel Tank (L)	-	-

Note: These parameters allow for some acceptable deviations.

■ Engine Specification: DP158LDS

Basic technical data	
No. of cylinders	8
Cylinder arrangement	V-type
Cycle	4 stroke
Injection timing	18°±1° BTDC
Compression ratio	15:1
Bore	128mm
Stroke	142mm
Displacement	14.618L
Fly wheel housing	SAE NO. 1M
Number of teeth on flywheel	160

Cooling system	
Cooling method	Fresh water forced circulation
Coolant capacity	20L
Coolant flow rate	550 liters/min
Pressure cap	Max. 49kPa
Water temp	
-Maximum for standby and prime	103°C
-Before start of full load	40°C
Water pump	Centrifugal type
Thermostat type and range	Wax-Pellet type
Cooling fan	915mm diameter, 7 blade
Max. external coolant system restriction	Not available

Fuel system	
Injection pump	Bosch in-line "P" type
Governor	Electric type
Speed drop	G3 Class
Feed pump	Mechanical type in pump
Injection nozzle	Multi hole type
Opening pressure	28 MPa
Fuel filter	Full flow
Maximum fuel inlet restriction	30kPa
Maximum fuel return restriction	60kPa
Fuel feed pump capacity	315 L/hr
Used fuel	Diesel fuel oil

Induction system	
Maximum intake air restriction	
-with clean filter element	2.16 kPa
-with dirty filter element	6.23 kPa
Max. static pressure after radiator	0.125 kPa

Lubrication system	
Lub. method	Fully forced pressure feed type
Oil pump	Gear type driven by crank-shaft gear
Oil filter	Full flow, cartridge type
Oil capacity	
-Max.	22L
-Min	13L
Lub oil pressure	Idle speed: Min 100 kPa
	Governed speed: Min 250kPa
Maximum oil temp	120°C
Lubrication oil	Refer to operation manual

Electrical system	
Battery charging alternator	27.5V X 45A Alternator
Voltage regulator	Built-in type IC regulator
Starting motor	24V x 7.0 kW
Battery voltage	24V
Battery capacity	2*200Ah
Starting aid (option)	Block heater

General installation	Prime power
Governed engine speed	1800 rpm
Engine idle speed	800 rpm
Over speed limit	1980 rpm
Gross engine power output	505 kW
Break mean effective pressure	2.30 Mpa
Mean piston speed	8.5 m/s
Friction power	44 kW
Maximum lube oil consumption	481g/h
Fan power	24 kW