

Model : ATL-500PKN

Powered by PERKINS



Generator Specification

Service	PRP	ESP
Power (kVA)	500	550
Power (kW)	400	440
Rated Speed (r.p.m)	1500	
Standard Voltage (V)	400/230V	
Rated at power factor (cos phi)	0.8	

(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 manufactures. No overload capability is available

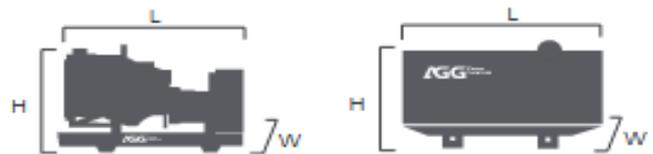
Powers	ESP		PRP		Standby
	Voltage (V)	KVA	KW	KVA	
415/240	550	440	500	400	765
400/230	500	400	450	360	793
380/220	500	400	450	360	835

Performance Data

Model	ATL500PKN	
Engine Brand	Perkins	
Engine Model	2506A-E15TAG2	
Speed control type	ECM	
Phase	3	
Control system	Digital	
Starter motor voltage	24V	
Frequency	50HZ	
Enigne speed (RPM)	1500	
Fuel Consumption (L/H)	100% standby power	111
	100% prime power	100
	75% prime power	76
	50% prime power	53

Standard reference conditions

Note : standard reference condition 25C (77F) 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 Wieht

Dimension	Open	Silent
Length (L)	3430 mm	5200 mm
Width (W)	1255 mm	1420 mm
Height (H)	2005 mm	2520 mm
Net Weight	3870 KG	5110 KG
Fuel Tank (L)	850	825

■ **Engine Specification : 2506A-E15TAG2**

Basic technical data	
No. Of cylinders	6
Cylinder arrange	Vertical line
Cycle	4 stroke
Induction system	Turbocharged
	Air to air charge cooling
Compression ratio	16:01
Bore	137 mm
Stroke	171 mm
Displacement	15.2 L
All rating certified to within	TBD
Speed variation at constant load	TBD

Cooling system	
Total coolant capacity with radiator	TBD
Total coolant capacity without radiator	TBD
Maximum top tank temp.	107 C
Thermostat operation range	88-98 C
Radiator face area	1.29 m
Rows and Material	2 rows, aluminium
Pressure cap setting	69 kpa
Fan diameter	927 mm
Drive ratio	0.92 : 1
Number of blades	9

Fuel system	
Injection system	MEUI
Fuel injection pump	TBD
Fuel atomiser	TBD
Nozzel opening pressure	TBD
Fuel lift pump type	ECM
- flow / hour	TBD
- pressure	550 kpa
Maximum suction head	3 m
- 1500 rev/min	

Induction System	
Clean filter	3.7 kpa
Dirty filter	6.2 kpa
Air filter type	Paper element - 457 mm diameter

Lubrication system	
Total lub capacity	62 L
Sump minimum	45 L
Sump maximum	53 L
Maximum engine operating angels	
-front up, front down, right side or	TBD
or left side	
Lubricating oil pressure relief	
valve opens	TBD
at maximum no-load speed	TBD
Oil consumption at full load	
as a % of fuel consumption	0.1 %

Electrical System	
Type	Negative around
Alternator voltage	24 volts
Alternator output	70 amps
Starter motor voltage	24 volts
Starter motor power	7.5 kw

General installation	Prime Power
Combustion air flow	35.8m / min
Exhaust gas temp	TBD
Exhaust gas flow, wet	94 m / min
Enginee coolant flow	6.1l/min
Cooling fan air flow	722l/ min