

# Model : ATL-800PKN

Powered by PERKINS



**Generator Specification**

Service	PRP	ESP
Power (kVA)	<b>800</b>	<b>880</b>
Power (kW)	640	704
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

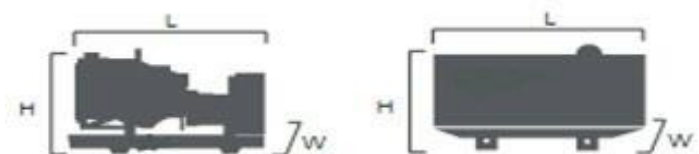
Powers	ESP		PRP		Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	880	704	800	640	1224
400/230	880	704	800	640	1270
380/220	880	704	800	640	1337



Performance Data		
Model	ATL800PKN	
Engine Brand	Perkins	
Engine Model	4006-23TAG3A	
Speed control type	Electronic	
Phase	3	
Control system	Digital	
Starter motor voltage	24V	
Frequency	50HZ	
Enigne speed (RPM)	1500	
Fuel Consumption (L/H)	100% standbay power	194
	100% prime power	172
	75% prime power	130
	50% prime power	90

## 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 Wiegth		
Dimension	Open	Silent
Length (L)	3700 mm	6058 mm
Width (W)	1706 mm	2438 mm
Height (H)	2121 mm	2591 mm
Net Weight	5800 KG	11800 KG
Fuel Tank (L)	-	900

■ **Engine Specification : 4006-23TAG3A**

**Basic technical data**

No. Of cylinders	6
Cylinder arrange	Vertical line
Cycle	4 stroke
Induction system	Turbocharged

Compression ratio	13.6 : 1
Bore	160 mm
Stroke	190 mm
Displacement	22.9 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.	98 C
Thermostat operation range	71-85 C
Radiator face area	2.57 m
Rows and Material	3 row of brass tubes
Pressure cap setting	TBD
Fan diameter	1.2 mm
Drive ratio	0.78 : 1
Number of blades	TBD

**Fuel system**

Injection system	Direct
Fuel injection pump	TBD
Fuel atomiser	TBD
Nozzel opening pressure	TBD
Fuel lift pump type	Electronic
- flow / hour	TBD
- pressure	TBD
Maximum suction head	2.5 m
- 1500 rev/min	

**Induction System**

Clean filter	1.2 kpa
Dirty filter	3.7 kpa
Air filter type	Dry paper

**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 or left side	TBD
Lubricating oil pressure relief valve opens at maximum no-load speed	620 kpa TBD
Oil consumption at full load as a % of fuel consumption	0.1 %

**Electrical System**

Type	Insulated return
Alternator voltage	24 volts
Alternator output	70 amps
Starter motor voltage	24 volts
Starter motor power	9 kw

**General installation** **Prime Power**

Combustion air flow	69 m / min
Exhaust gas temp	500 C
Exhaust gas flow, wet	193 m / min
Enginee coolant flow	10l/min
Cooling fan air flow	1200 m/min



