

Model : ATL-400PKN

Powered by PERKINS



Generator Specification

Service	PRP	ESP
Power (kVA)	400	450
Power (kW)	320	360
Rated Speed (r.p.m)	1500	
Standard Voltage (V)	400/230V	
Rated at power factor (cos phi)	0.8	

Performance Data		
Model	ATL450PKN	
Engine Brand	Perkins	
Engine Model	2506A-E15TAG1	
Speed control type	ECM	
Phase	3	
Control system	Digital	
Starter motor voltage	24V	
Frequency	50HZ	
Enigne speed (RPM)	1500	
Consumption (L/H)	100% standbay power	104
	100% prime power	95
	75% prime power	72
	50% prime power	50

(1) PRP (Prime Power)

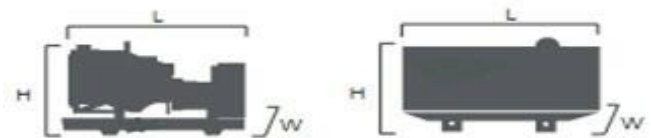
According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power.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

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



Powers Voltage (V)	ESP		PRP		Standby Amps
	KVA	KW	KVA	KW	
415/240	450	360	400	320	695
400/230	450	360	400	320	721
380/220	450	360	400	320	759

Dimension and Wieght		
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	5100 KG
Fuel Tank (L)	850	825

■ **Engine Specification : 2506A-E15TAG1**

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	70 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 or left side	TBD
Lubricating oil pressure relief valve opens 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	25.8m / min
Exhaust gas temp	TBD
Exhaust gas flow, wet	71.4 m / min
Enginee coolant flow	6.1l/min
Cooling fan air flow	722l/ min