

# Model : ATL-60PKN

Powered by PERKINS



## Generator Specification

Service	PRP	ESP
Power (kVA)	<b>60</b>	<b>66</b>
Power (kW)	48	53
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

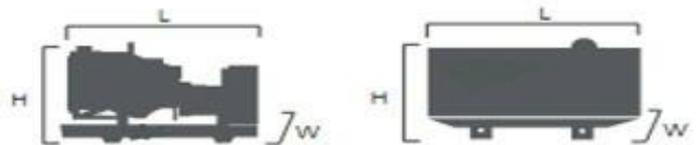
Powers Voltage (V)	ESP		PRP		Standby
	KVA	KW	KVA	KW	Amps
415/240	66	53	60	48	91.8
400/230	66	53	60	48	95.3
380/220	66	53	60	48	100.3

## Performance Data

Model	ATL60PKN	
Engine Brand	Perkins	
Engine Model	1103A-33TG2	
Speed vontrol type	Mechanical	
Phase	3	
Control system	Digital	
Starter motor voltage	12V	
Frequency	50HZ	
Enigne speed (RPM)	1500	
Fuel Consumption (L/H)	100% standbay power	15.4
	100% prime power	13.9
	75% prime power	10.4
	50% prime power	7.2

### 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 Wieght

Dimension	Open	Silent
Length (L)	1920 mm	2500 mm
Width (W)	750 mm	900 mm
Height (H)	1410 mm	1276 mm
Net Weight	1000 KG	1180 KG
Fuel Tank (L)	200	80

■ **Engine Specification : 1103A-33TG2**

**Basic technical data**

No. Of cylinders	3
Cylinder arrange	In line
Cycle	4 stroke
Induction system	Turbocharged
Compression ratio	17.25 : 1
Bore	105 mm
Stroke	127 mm
Displacement	3.3 L
All rating certified to within	3%
Speed variation at constant load	0.25%

**Cooling system**

Total coolant capacity with radiator	10.2 L
Total coolant capacity without radiator	4.4 L
Maximum top tank temp.	110 C
Thermostat operation range	82-93 C
Radiator face area	0.276 m
Rows and Material	Double rows aluminium
Pressure cap setting	107 kpa
Fan diameter	457.00 mm
Drive ratio	1.25 : 1
Number of blades	7

**Fuel system**

Injection system	Direct
Fuel injection pump	Rotary
Fuel atomiser	Multi hole
Nozzel opening pressure	29.0 Mpa
Fuel lift pump type	Mechanical
- flow / hour	120-150 I/h
- pressure	30-75 kPa
Maximum suction head	20 kpa
- 1500 rev/min	

**Induction System**

Clean filter	5 kpa
Dirty filter	8 kpa
Air filter type	Dry

**Lubrication**

Total lub capacity	8.3 L
Sump minimum	6.2 L
Sump maximum	7.8 L
Maximum engine operating angels -front up, front down, right side or or left side	25 C
Lubricating oil pressure relief valve opens at maximum no-load speed	415-470 KPA 276-414 KPA
Oil consumption at full load as a % of fuel consumption	0.15 %

**Electrical System**

Type	Negative ground
Alternator voltage	12 volts
Alternator output	65 amps
Starter motor voltage	12 volts
Starter motor power	3 KW

**General installation**

**Prime Power**

Combustion air flow	3.9m / min
Exhaust gas temp	571 C
Exhaust gas flow, wet	10.4 m / min
Enginee coolant flow	125.5l/ min
Cooling fan air flow	89m / min