

Ashok Leyland

Model : LP1250

Frequency : 50 Hz

Diesel Generator



1250 KVA



Model	Engine	Alternator	Voltage	PH	Frequency	Prime Rating		Power factor
						KVA/kW	Amps	
LP1250	4012-46TAG0A	PI734B1	415V	3	50 Hz	1250 / 1000	1737	0.8

Rating	Prime Power – KW(KVA)		
	1000 (1250)		
Load	50%	75%	100%
Liters/ hr	139	199	259
g/kwh	215	204	199

Engine	Prime Power Rating
Engine Manufacturer	Perkins UK
Engine Model	4012-46TAG0A
Configuration	12 'Vee'
Aspiration	Turbo Charged and After Cooled
Gross Engine Power output kWm / BHP	1053 / 1412
Net Engine power output kWm / BHP	1117 / 1497
BMEP @ rated load , kPa	1949
Displacement , L	45.842
Bore , mm	160
Stoke, mm	190
Rated Speed, rpm	1500
Piston Speed, m/s	9.5
Compression Ratio	13.6 : 1
Lub oil capacity Max, L	159
Lub oil capacity Min, L	136
Governor Type	Electronics
Starting Voltage, V- DC	24

Fuel System

Recommended fuel to conform to	BS2869 1998 Class A2 or BS EN590
Type of injection system	Direct injection
Fuel injection pump	Combined unit injector
Fuel injector	Combined unit injector
Fuel injector pressure, bar	1400
Fuel lift pump	Tuthill TCH 1-089
Delivery at 1500 rev/min, L/hr	1020
Heat retained in fuel to tank, kW	8
Fuel Inlet Temperature to be less than, °C	58
Delivery pressure, kPa	300
Maximum suction head at pump Inlet , m	2.5
Fuel filter spacing, microns	10
Tolerance on fuel consumption, %	5

- Governing to ISO8528-12 Class 3 & 4: ISO8528-5 ClassG2

Air

Maximum air intake restriction of engine clean filter	2 kPa
Maximum air intake restriction of engine , dirty filter	4 kPa
air filter type	cylinder paper pleat
Combustion air flow m ³ /min	106

Exhaust

Maximum back pressure for total system	5 kPa
Exhaust gas temperature, after turbo °C	425
Exhaust gas flow maximum, after turbo , m ³ /min	280

Standard set –mounted radiator cooling

Ambient design, °C	52
Fan Load , KW	64
Coolant Capacity with radiator , Lit	210
Engine Coolant Flow Lit/min	1020
cooling system air flow - m ³ /sec	32.4

Weights*

	open
Unit dry weight kgs	8514
Unit wet weight kgs	10200

- Weight represent a set with standard feature

Dimension

	Length	Width	Height
Standard open set dimension	5300	2000	2800

Test conditions

Air temperature	25 °C
Barometric pressure	100 kPa
Relative humidity	30%
Air inlet restriction at maximum power (nominal)	2.5 kPa
Exhaust back pressure (nominal)	3.0 kPa

Alternator

Specification	1250kVA - 3ph
Model	PI734B1
Rated Voltage	415V
Type	4 pole
Exciter type	Brushless
Insulation	Class - H
Temperature rise	125 °C
Enclosure Protection	IP23
Bearing	Single
Voltage regulation	± 0.5%
Efficiency	94.8

Prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with IS 8528-1.

A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO3046-1.

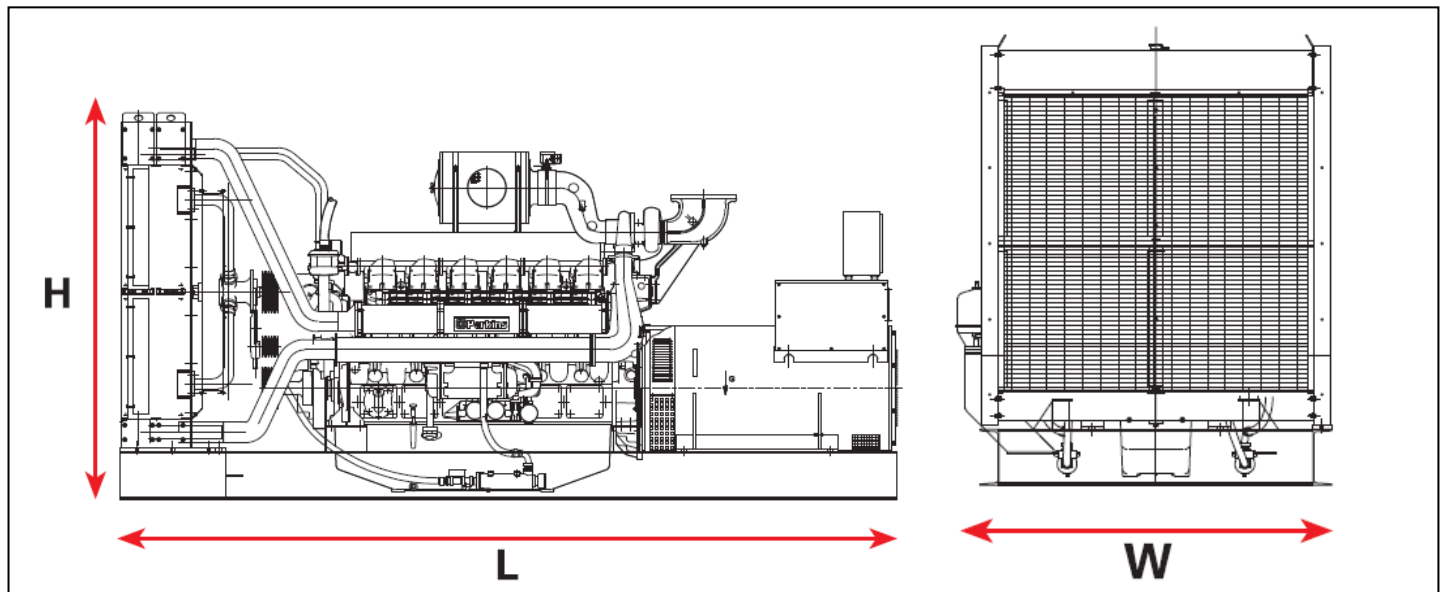
Standby Power Rating is applicable for supplying emergency power for the duration of utility power interruption. No Overload, utility parallel or negotiated outage operation capability is available at this rating.

In installations served by unreliable utility sources (where outage last longer or occur more frequently), where operation is likely to exceed 2000 hours per year, the prime power should be applied. All ratings are based on the following reference conditions: Ambient temperature -27°C (Altitude above sea Level-150metres) Relative humidity- 60%

Power rating as per Standard reference condition as per BS 5514/ ISO 3046 / ISO 8528

Reference condition 27 °C ambient Temp, 100KPA (750mm of Hg) Atmospheric Condition and 60% humidity – as per IS10002, ISO 3046

Fuel consumption of DG set is considering specific gravity of fuel as 0.8355 at NTP condition, Tolerance will be +5%



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