

Ashok Leyland

Model : LP2000

Frequency : 50 Hz

Diesel Generator



2000 KVA



Model	Engine	Alternator	Voltage	PH	Frequency	Prime Rating		Power factor
						KVA/kW	Amps	
LP2000	4016TAG2A	PI734F1	415V	3	50 Hz	2000 / 1600	2780	0.8

Rating	Prime Power – KW(KVA)			
	1200 (1500)			
Load	25%	50%	75%	100%
Liters/ hr	112	212	326	447
g/Kwh	212	202	203	209

Engine	Prime Power Rating
Engine Manufacturer	Perkins UK
Engine Model	4016TAG2A
Configuration	16 'Vee'
Aspiration	Turbo Charged and After Cooled
Gross Engine Power output kWm / BHP	1766 / 2367
Net Engine power output kWm / BHP	1715 / 2300
BMEP @ rated load , kPa	2310
Displacement , L	61.123
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	214
Lub oil capacity Min, L	147
Governor Type	Electronics
Starting Voltage, V- DC	24

Fuel System

Recommended fuel to conform to	BS2869 1998 Class A1, A2
Type of injection system	Direct injection
Fuel injection pump	Combined unit injector
Fuel injector	Combined unit injector
Fuel injector opening pressure, bar	234
Fuel lift pump	Tuthill TCH 5
Delivery at 1500 rev/min, L/hr	1380
Heat retained in fuel to tank, kW	12
Fuel Inlet Temperature to be less than, °C	58
Fuel lift pump pressure, bar	3
Maximum suction head at pump Inlet, m	2.5
Fuel filter spacing, microns	18
Tolerance on fuel consumption, %	5

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

Air

Maximum air intake restriction of engine clean filter	127 mm H2O
Maximum air intake restriction of engine , dirty filter	380 mm H2O
air filter type	MF&T 5000-00
Combustion air flow, m ³ /min	137

Exhaust

Maximum back pressure for total system	673 mm H2O
Exhaust gas temperature, after turbo °C	493
Exhaust gas flow maximum, after turbo , m ³ /min	393

Standard set –mounted radiator cooling

Ambient design, °C	52
Fan Load , KW	51
Coolant Capacity with radiator , L	316
Engine Coolant Flow L/s	19
cooling system air flow, m ³ /min	2430

Weights*

	open
Unit dry weight, kgs	11066
Unit wet weight, kgs	11343

- Weight represent a set with standard feature

Dimension	Length	Width	Height
Standard open set dimension	6150	2300	3800

Test conditions

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

Alternator

Specification	2000kVA - 3ph
Model	PI734F1
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	96.1

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.

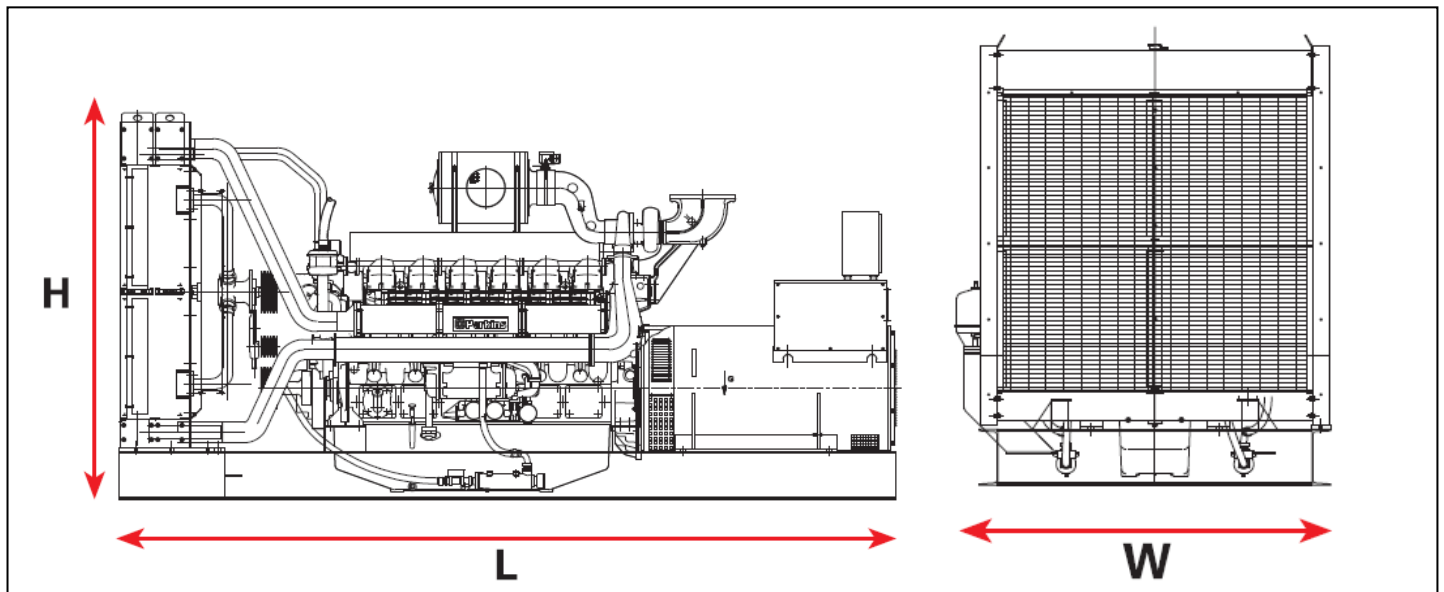
Standby Power Rating is applicable for supplying emergency power for the duration of utility power interruption. No Overload, utility parallel or negotiated outage operation capability is available at this rating.

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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