Salient features

Robust, compact and fuel efficient

Operate continually @ 100% load, 24 x 7

Failsafe alarm and trip system to safeguard the engine

Nationwide service network

LEYPOWER diesel generating sets are powered by rugged Ashok Leyland range of Engines.

With state-of-the-art technology for input aggregates like engines, alternators, controllers and acoustic enclosures, LEYPOWER provides a fully integrated power system, meeting global standards and at a very competitive overallcost of ownership.

LEYPOWER ready-to-use diesel generating sets meet with the latest Central Pollution Control Board CPCB II norms in India and are geared to comfortably meet equivalent TIER II international norms.

The compact, aesthetically designed silent diesel generating sets provided with acoustic enclosures are powered by the compact 4 and 6 cylinder Ashok Leyland engines and are environment-friendly and low on maintenance cost.

Ideal choice for industry, hotels /restaurants, shopping malls, cinematheaters, clinics / hospitals, educational institutions, residential etc. Apart from the above offerings, Ashok Leyland also caters to the requirements of the industrial, as well as the marine segment with significant presence.

Ashok Leyland Service and spare parts support

Market support is provided by qualified and skilled Ashok Leyland Service dealers and are backed by Ashok Leyland's Service Engineers spread across the country. In addition to warranty free services, offerings include Annual Maintenance Contracts to maintain your sets trouble free, round-the-clock. LEYPARTS are easily available to cater to your parts requirements through dealer and other outlets.

LEYLAND DIRECT
1800-266-3340
24 x 7 National Helpline

CPCB II COMPLIANT

LEYPOWER
POWERING YOUR NEEDS

UNITED GENSETS PVT.LTD.

Registered address: Ashok Leyland Ltd., No.1 Sardar Patel Road, Guindy, Chennai - 600 032.
Ph. no.: 044 2220 6000 | website: www.ashokleyland.com | email: reachus@ashokleyland.com

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CIN: L34101TN1948PLC000105

HINDUJA GROUP

VOLVO PENTA

UNITED GENSETS PVT. LTD.

AN ISO 9001-2008 Company : An ISO 14001-2004 Company

PRODUCT CATALOGUE

LEYPOWER DIESEL GENERATING SET SPECIFICATION

DG MODEL	Unit	LP320	LP350	LP380	LP415	LP450	LP500	LP600	LP650
Power Rating@0.8 PF,415V,50 Hz	kVA	320	350	380	415	450	500	600	650
Electric Power	kWe	256	280	304	332	360	400	480	520
Rated Current	Amp	445	487	529	577	626	695	834	904
DG Size L	mm	5000	5000	5000	5000	5600	5600	5600	5600
W	mm	2000	2000	2000	2000	2000	2000	2000	2000
H (Including Base)	mm	2800	2800	2800	2800	2800	2800	2800	2800
DG Weight approx.	Kg	4700	4900	5000	5750	5900	6150	6350	6650
Fuel Tank Capacity	L	990	990	990	990	990	990	990	990
Battery Capacity	AH	180	180	180	180	180	180	180	180
System DC Voltage	V	24	24	24	24	24	24	24	24
Engine Make		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Engine Model		TAD1351GE	TAD1352GE	TAD1354GE	TAD1355GE	TAD1650GE	TAD1651GE	TWD1652GE	TWD1653GE
Engine Nett Output Power	KW	279	314	328	355	388	430	505	547
Engine Nett Output Power	HP	379	427	446	483	528	585	687	744
Aspiration		TA	TA	TA	TA	TA	TA	TA	TA
Rated Speed	RPM	1500	1500	1500	1500	1500	1500	1500	1500
No. of cylinders		6 " In line"	6 " In line"	6 " In line"	6 " In line"	6 " In line"	6 " In line"	6 " In line"	6 " In line"
Bore x Stroke	mm	131X158	131X158	131X158	131X158	131X158	144X165	144X165	144X165
Displacement	L	12.78	12.78	12.78	12.78	16.12	16.12	16.12	16.12
Compression ration		18.1:1	18.1:1	18.1:1	18.1:1	18.1:1	16.5:1	16.5:1	16.5:1
Fuel Consumption @75% Load*	L	49	54.8	58.5	64.75	68.1	76.3	90.8	103.56
Fuel Consumption @100% Load*	L	63.1	69.3	73.89	79.8	89.8	97.76	120.8	134.7
Lube Oil System Capacity .	L	30	30	30	30	42	42	42	42
Lube Oil Grade .		API CI 4+ 15W 40	API CI 4+ 15W 40	API CI 4+ 15W 40	API CI 4+ 15W 40	API CI 4+ 15W 40	API CI 4+ 15W 40	API CI 4+ 15W 40	API CI 4+ 15W 40
Governor/Class Class		"Electronic/G2"	"Electronic/G2"	"Electronic/G2"	"Electronic/G2"	"Electronic/G2"	"Electronic/G2"	"Electronic/G2"	"Electronic/G2"
Coolant capacity	L	24	24	24	24	61	61	75	75
Alternator Make		Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer
Alternator Model		LSAP45C	LSA47.2 VS2	LSA47.2 VS2	LSA47.2M7	LSA47.2M7	LSA47.2M7	LSA49.1S4	LSA49.1S4
Enclosure/Winding Insulation class		IP 23/Class H							
Voltage Regulation		± 1 %	± 1 %	± 1 %	± 0.5 %	± 0.5 %	± 0.5 %	± 0.5 %	± 0.5 %
Efficiency @75% Load	%	95.1	93.9	93.9	94.9	94.9	94.9	94.6	94.6
Efficiency@100% Load	%	94.3	93.5	93.5	94.4	94.4	94.4	94.2	94.2
Over Load Capacity		10% over load for 1 Hour after every 12 Hours							

Rating Definition : Continuous rating is defined as being the maximum power which the generating set is capable of delivering continously whilst supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with maintenance intervals and procedures.

Note: The above DG ratings are " Prime rating".The Power Rating is as per standard reference condition as per BS 5514/ISO 3046/ISO 8528/ISO 10002.

* Specific gravity of fuel is considered for 850 gms/Litre. +5% tolerance is applicable for the above consumptions as per BS-5514/ISO-3046

Ashok Leyland Ltd reserves the right to revise the specifications or dimensions without notice.

Power Source:

1. "Ashok Leyland" Packaged "VOLVO PENTA" powered DG sets meet the latest CPCB-II emission norms.
2. Highly Fuel Efficient
3. Best in class first step load capability.
4. Maximum deration tolerance

RTU (Ready to use) DG set unit

1. Adhere to CPCB-II norms on noise.
2. Residential silencer, suitable batteries with cable and in-built diesel tank (optional).
3. Powered with "VOLVO PENTA" make engine coupled with Single bearing brushless alternator of either LS or Stamford

Acoustic Enclosures

1. The design and construction of the DG set ensure easy serviceability, accessibility and maintenance inside acoustic enclosure.
2. The acoustic have been manufactured with specially procured CRCA sheet and using CNC machines for obtaining precision finish

AMF control panel (Optional)

1. Consists of a microprocessor based AMF Control unit, which can operate on auto as well as on manual mode. It monitors the engine safety parameters and alarm/trip conditions display on the front panel.
2. Special alarm conditions include LLOP, HWT, overload, under /over speed, low fuel level. The controller comes with an inbuilt LVM and the parameters can be programmed to meet specific customer requirements.
3. The specific indication includes various conditions of operation such as Load on Mains, Load on DG, Main Healthy, DG on, Auto & manual mode.
4. The control panel consists of a multifunction meter which displays AC current/Voltage, Frequency, Power factor, Kilowatt Hour.
5. The generator set is also available with a standard control panel to operate in manual mode.

DSE - GENERATOR CONTROLLER

- IP65 rating (with optional gasket)
- Control signal for auto transfer between mains (utility) and generator
- Hour counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save mode
- 3 Phase generator sensing
- Provision for 3 phase mains (utility) sensing
- Provision for 3 phase generator current sensing
- Provision for Remote monitoring & control through GPRS (optional)
- Provision for web monitoring (optional)

Some of the USP of Leypower Diesel generating sets are:

• Compact • Low operating cost • Easy availability of spare parts
• Nation-wide service network environment friendly