

# ASHOK LEYLAND POWERED GHATGE KARKERA SILENT DIESEL GENERATING SET SPECIFICATION

DG MODEL	Unit	GKLP 5D	GKLP10/15D1	GKLP20D1	GKLP25D1	GKLP30D1	GKLP40D	GKLP45D	GKLP 50 / 62.5D	GKLP62.5D1	GKLP75D/LP 82.5D	GKLP100D	GKLP125D	GKLP160D	GKLP250D	
Power Rating*	kVA	5	10/15	20	25	30	40	45	50 / 62.5	62.5	75/82.5	100	125	160	250	
Electric Power	kWe	4	12	16	20	24	32	32	40 / 50	50	60/66	80	100	128	200	
Rated Current	Amp	20.85**	21	22	28	33	55.65	55.65	69.56 / 86.95	86.95	104.34/114.78	139.12	173.91	222.6	348	
DG Size	L	mm	970	1750	2000	2000	2000	2500	2500	2800	2800	2800	3300	3300	3900	4700
	W	mm	580	900	900	900	900	1050	1050	1200	1200	1200	1250	1250	1350	1600
H (Including Base)	mm	790	1210	1400	1400	1400	1420	1420	1520	1520	1520	1565	1565	1700	2020	
DG Weight approx.	Kg	200	676	750	750	750	1086	1086	1350	1350	1417	1876	1876	2188	4500	
Fuel Tank Capacity	Litres	15	65	75	75	75	100	100	140	140	140	180	180	230	250	
Battery Capacity	AH	35	90	90	90	90	90	90	90	90	90	90	90	105	105	
System DC Voltage	Volt	12	12	12	12	12	12	12	12	12	12	12	12	12	24	
<b>Engine Model</b>		<b>AL418DG1</b>	<b>AL2CDG1</b>	<b>AL2CTIDG2</b>	<b>AL2CTIDG2</b>	<b>AL2CTIDG1</b>	<b>AL4CTDG1</b>	<b>AL4CTDG1</b>	<b>AL4CTIDG2</b>	<b>AL4CTIDG5</b>	<b>AL4CTIDG3</b>	<b>AL6DTIDG1</b>	<b>AL6DTIDG2</b>	<b>AL6DTIDG4</b>	<b>AL8NTIDG3/6</b>	
<b>Engine Rated kW/Engine Rated HP</b>	kW/HP	5.5/7.5	15.6/21	18.7/25.4	25.2/34.2	28.4/38.6	39/52.29	39/52.29	59/79.12	59/79.09	78/104.59	94/126.05	116/155.5	147/197.13	223/299	
Aspiration		NA	NA	TC	TC AC	TC AC	T	T	TA	TA	TA	TA	TA	TA	TA	
No. of cylinders & configuration		Single, Vertical	2, In line	2, In line	2, In line	2, In line	4, In line	4, In line	4, In line	4, In line	4, In line	6, In line	6, In line	6, In line	6, In line	
Bore x Stroke	mm	86 x 72	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113	112 x 135	
Displacement	Litres	0.418	1.915	1.915	1.915	1.915	3.84	3.84	3.84	3.84	3.84	5.76	5.76	5.76	7.98	
Compression ratio		20 ± 0.5 : 1	17.5 ± 0.5 : 1	16.5 ± 0.5 : 1	16.5 ± 0.5 : 1	16.5 ± 0.5 : 1	17.5 ± 0.5 : 1	17.5 ± 0.5 : 1	16.5 ± 0.5 : 1	16.5 ± 0.5 : 1	16.5 ± 0.5 : 1	16.5 ± 0.5 : 1	16.5 ± 0.5 : 1	16.5 ± 0.5 : 1	17.5 ± 0.5 : 1	
Fuel Consumption***	Lit/Hr	1.5	2.95	4.2	5.0	6.1	7.5	7.5	9.1 / 11.3	12.5	13.6	17.5	21.6	27.9	40.3	
Lube Oil Capacity approx.	Litres	1.65	6	6	6	6	8.5	8.5	8.5	8.5	11	17.5	17.5	17.5	25	
Coolant Capacity approx.	Litres	Air Cooled	10	12	12	12	13	13	13.5	13.5	15.5	20	20	25	41	
Governing Class		A1	A1	A1	A0	A0	A0	A0	A0	A1	A0	A0	A0	A0	A0	
Governer Used		Mechanical	Mechanical	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	
Oil Change Period		200 Hrs or 6 Months****	600 Hrs or 1 year												250 Hrs or 6 Months	
Lube Oil specification		Gulf Leypower XLL Diesel Engine Oil														
Alternator		230 V**	Brushless, Single Bearing, IP23, Class H Insulated, 50 Hz, Voltage Regulation ± 0.5%, 0.8PF Lag													

\* Power Rating- As per BS 5514/ ISO 3046/ ISO 8528 under standard reference conditions. Reference conditions 27 deg C ambient temperature, 100KPA (750mm of Hg) atmospheric conditions with maintenance intervals and procedures.

\*\* Rated current for 5 kVA single phase, the alternator for 5 kVA is brush with AVR, 230 V, IP23, Class H Insulated, 50 Hz, 0.8 PF lag.

\*\*\* Fuel consumption for genset @ 75% of load in considered, specific gravity of fuel as 0.8355 at NTP condition, tolerance will be +5%.

\*\*\*\*For first time in 5kVA, the replacement of Lub Oil will be in 50 Hrs.

Entire range is three phase except 5 kVA. Further single phase option is available from 10 kVA to 45 kVA.



Ghatge Karkera LEYPOWER ready to use DG sets are offered in full range from 5kVA -2250 kVA. The aesthetically designed silent DG sets meet with latest CPCB emission norms and are offered from various manufacturing locations. Ashok Leyland offers total power solution including transportation of DG set, loading/unloading, positioning & installation at site which includes Earthing work, cabling work, exhaust piping, fuel line, room treatment and required approval from various bodies

## Some of the USP's of Leypower Diesel generating sets are

- 2 years warranty on entire package
- Compact in size
- Low operating costs
- Rugged and suitable for continuous duty applications
- Easy availability of spares and service
- Nation-wide service network
- Single point contact for Engine, Alternator, Panel & Installation

## AMF control panel (Optional)

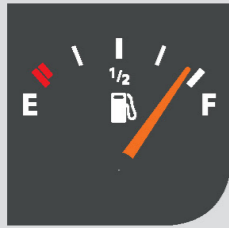
- Consists of a microprocessor based AMF Control Unit, which can operate on Auto, as well as Manual mode. It monitors the engine safety parameters and alarm/trip condition will be displayed on the front panel
- Special alarm conditions include LLOP, HWT, overload, under/over speed, low fuel level. The controller comes with an inbuilt LVM and the parameters can be programmed to meet specific customer requirements
- The specific indication includes various conditions of operations such as load on mains, Load on DG, Mains Healthy, DG ON, Auto & Manual mode
- The control panel consists of a multi function meter which displays AC Current/Voltage, Frequency, Power Factor, Kilowatt Hour. The generator set can also be supplied with a standard control panel to operate in manual mode



## 1202 / 1203 Generator Controller

- Reads all genset inputs and controls the genset
- Controls the engine speed (Speed governing)
- Supports Auto-Mains-Failure (AMF) functions for 1-Ph and 3-Ph genset
- Supports Manual-control-Panel (MCP) functions for 1-Ph and 3-Ph genset
- Measures genset voltages & currents
- Measures mains supply voltages & currents
- Measures electrical parameters like Frequency, Power factor, Genset Power
- Monitors critical engine safety parameters
- Starts and stops the genset
- Have counters for genset starts and stops, run hours, kWh, power factor

## 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

Ghatge Karkera 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, Ghatge Karkera LEYPOWER provides a fully integrated power system, meeting global standards and at a very competitive overall cost of ownership.

Ghatge Karkera 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 Ashok Leyland engines and are environment-friendly and low on maintenance cost

Ideal choice for industry, hotels /restaurants, shopping malls, cinema theaters, clinics / hospitals, educational-institutions, residential uses 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 DG sets trouble free, round-the-clock. LEYPARTS are easily available to cater to your parts requirements through dealer and other outlets.

Manufactured & Marketed by :

## GHATGE KARKERA POWER INDUSTRIES

### CORPORATE MARKETING OFFICE:

10, Kaliandas Udyog Bhavan, Near Century Bazaar, Prabhadevi, Mumbai- 400 025  
Tel No.:(022) 2432 5619 / 2432 7239, Mob : 09004615744 / 09867622380  
Email: sales@ghatgekarkera.com / varun@ghatgekarkera.com

### MARKETING OFFICE :

9, Auto Towers, 1 st Floor, 218 / 219, J. C Road, Bangalore – 560 002, Karnataka State  
Phone : ( 080) 2224 6232, Mob : 09071764904, 09071764905  
E-mail : bangalore@ghatgekarkera.com / gkpiblr@gmail.com

### REGIONAL OFFICE :

Karkera Towers, N. H. 66, Kannangar By – Pass, Padubidri – 574 111, Udupi Dist. Karnataka State  
Phone : ( 0820) 2539 155, 2539 355 Mob : 09071764902, 09448252545  
E-mail : karnataka@ghatgekarkera.com / gkpiqb@gmail.com

### FACTORY & SALES OFFICE:

Plot Nos. 7,8 & 9, Canacona Ind. Estate Shrishtal, Canacona - 403 702, Goa State  
Tel No.:(0832) 263 3382 / 263 3015 Mob : 09004615745 / 09987656604  
Email: goa@ghatgekarkera.com / gkpigoa@gmail.com

Also Sales Executives At : Nagpur - 9967552881, Ratnagiri - 9004615744, Solapur - 9004615744, Navi Mumbai - 9004615743, Thane - 9004615742, Aurangabad - 9004615743, Latur - 7045903101, Kolhapur - 9004035820, Amravati - 7045903101, Nashik - 9004615743, Pune - 9004615744, Mangalore – 09071764906, Udupi - 09071764903, Karkala - 09071750762, Kundapura – 09071764909, Bhatkal – 9480266735, Karwar – 09071764909, Hubli – 09071750903, Shimoga – 09071764908, Davangere – 09071750764, Hospet – 09071764904, Mysore - 09071750761

CIN: L34101TN1948PLC000105



POWERING YOUR NEEDS

**GHATGE KARKERA  
LEYPower**

SILENT DIESEL GENERATING SETS 5 - 2250KVA

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BUT ALSO POWER IT.**



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