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**LEYPower**  
POWERING YOUR NEEDS

# POWER SOLUTIONS BUSINESS



**ASHOK LEYLAND**  
Aapki Jeet. Hamari Jeet.



## ASHOK LEYLAND

Ashok Leyland, flagship of the Hinduja group, is the 2<sup>nd</sup> largest manufacturer of commercial vehicles in India, the 4<sup>th</sup> largest manufacturer of buses in the world, and the 10<sup>th</sup> largest manufacturers of trucks. Headquartered in Chennai, 9 manufacturing plants gives an international footprint - 7 in India, a bus manufacturing facility in Ras Al Khaimah (UAE), one at Leeds, United Kingdom and a joint venture with the Alteams Group for the manufacture of high-press die-casting extruded aluminum components for the automotive and telecommunications sectors, we have a well-diversified portfolio across the automobile industry. We were recently ranked as the 37<sup>th</sup> best brand in India.

A US \$ 4.20 billion company, and a footprint that extends across 50 countries, we are one of the most fully-integrated manufacturing companies in the world. We have a product range from 1T GVW (Gross Vehicle Weight) to 49T GTW (Gross Trailer Weight) in trucks, 16 to 80 seater buses, vehicles for defense and special applications, and diesel engines for industrial, genset and marine applications. We launched India's first electric bus and Euro 6 compliant truck in 2016. We also have the largest fleet of logistics vehicles deployed in the Indian Army and significant partnerships with armed forces across the globe.

Pioneers in the Commercial Vehicle (CV) space, we have ISO/TS 16949 Corporate Certification and also are the first CV manufacturer in India to receive the OBD-II (on board diagnostic) certification for BS IV-compliant commercial vehicle engines, SCR (selective catalytic reduction), iEGR (intelligent exhaust gas recirculation) and CNG technologies. We are the first truck and bus manufacturer outside of Japan to win the Deming prize for our Pantnagar plant in 2016 and the Hosur Unit II in 2017.

The Company's wide-spread customer base is served through an all-India sales and service network, supplemented by close to 3000 touch points. A global network of over 550 touch points that facilitate on-road service for millions of vehicles. We manage driver training institutes across India and have trained over 8,00,000 drivers since inception.

People, Planet and Profit for all stakeholders especially our customers is at the core of Ashok Leyland which resonates with our brand promise of 'AAPKI JEET, HAMARI JEET'.



**LEPOWER**  
DIESEL GENERATING SETS 10-2000 KVA



**INDUSTRIAL ENGINES**  
ENGINES FOR VARIOUS APPLICATION



**LEYPOLAR**  
MARINE ENGINES AND AGGREGATES



**Agricultural engines**  
EURO III / IV Engines for commercial vehicles

## LEPOWER – FULLY BUILT SOLUTIONS

LEPOWER is the fastest growing genset brand in India. With state-of-the-art technology in engine, alternator and controllers, LEPOWER provides fully integrated power systems at par with global standards at a very competitive overall cost of ownership. LEPOWER ready-to-use diesel generating sets meet the latest CPCB norms. These sets are powered by compact 4-stroke multi-cylinder diesel engines. Aesthetically designed, these DG sets are silent, environment-friendly, require minimum maintenance and are low on operating costs. Leypower diesel generating sets are manufactured in state-of-the-art plants located across India using the latest machinery and skill sets.

The present range covers 5-2250 kVA generating sets.

**Leypower Gensets are fully built solution assembled and tested by Ashok Leyland, as per customers' requirement.**

- Reliable, Robust & Rugged engines designed to deliver continuously in arduous environment
- Better Block Loading Capability
- Compact engine - Engineered for Optimized Power Solutions
- Low Ownership Cost
- Low Oil & Fuel consumption
- Continuous duty Power rating
- Minimal vibrations and lower noise levels
- Easy Serviceability & Repairability
- Standardized Design for complete range
- Wide after-sales & parts support



# DIESEL GENERATOR



## LEYPOWER 10 – 250 kVA

DG SET MODEL	Unit	LP5D	LP10D	LP15D	LP25D	LP30D	LP35D/LP40D	LP45D/LP50D/LP63D	LP75D/LP83D	LP100D	LP125D	LP150D / LP160D	LP250
Power Rating	<b>kVA</b>	5	10	15	25	30	35/40	45/50/62.5	75/82.5	100	125	150 / 160	250
Electric Power	<b>KWe</b>	4	8	12	20	24	28/32	36/40/50	60/66	80	100	120 / 128	200
Rated Current for 50Hz @ 0.8 pf	<b>Amp</b>	21.7	14	21	35	42	49/56	63/70/87	104 /115	139	174	209 / 223	346
Rated Current for 60Hz @ 0.8 pf	<b>Amp</b>	-	26	39	66	79	92/105	118/131/165	-	-	-	-	388
Soundproof DG Dimension (L x W x H)	<b>mm</b>	1050 x 580 x 900	1750 x 900 x 1220	1750 x 900 x 1220	2000 x 900 x 1420	2000 x 900 x 1420	2500 x 1100 x 1380	2800 x 1200 x 1400	2800 x 1200 x 1400	3300 x 1250 x 1565	3300 x 1250 x 1565	3900 x 1350 x 1700	4700X1600X2569
Sound proof DG Weight (Approx.)	<b>Kg</b>	290	640	650	730	745	1086	1190/1290/1350	1410	1874	1874	2176	3529
Open DG Dimensions ( L x W )	<b>mm</b>	-	1650 x 950	1650 x 950	1650 x 950	1650 x 950	2200 x 1200	2200 x 1200	2200 x 1200	2500 x 1200	2500 x 1200	2500 x 1200	-
Open DG Weight (Approx.)	<b>Kg</b>	-	520	520	560	585	670	1170	1235	1675	1675	1940	-
Fuel Tank Capacity	<b>Lit.</b>	12	50	50	75	75	140	140	140	180	180	180	340
Engine Model		AL418DG1	AL2CDG1	AL2CDG1	AL2CTIDG2	AL2CTIDG1	AL4CTDG1	AL4CTIDG5	AL4CTIDG3	AL6DTIDG1	AL6DTIDG2	AL6DTIDG4	AL8NTIDG3/AL8NTIDG6
Max Power metric HP	<b>HP</b>	7.5	20.91	20.91	33.8	38	52.29	79.09	104.56	126	155.5	197	303
Aspiration Type		NA	NA	NA	TA	TA	T	TA	TA	TA	TA	TA	Turbocharged Intercooled
No. of cylinders & configuration	<b>mm</b>	Single,Vertical	2 , In line	2 , In line	2, In-Line	2, 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	<b>L</b>	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	112X135
Displacement		0.418	1.92	1.92	1.92	1.92	3.84	3.84	3.84	5.76	5.76	5.76	7.98
Compression ratio		20:01	17.5 ± 0.5 :1	17.5 ± 0.5 :1	16.5 ± 0.5 :1	16.5 ± 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	16.5:1
Governer Type		Mechanical	Mechanical	Mechanical	Electronic	Electronic	Electronic	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic

\* Note: 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 IS 10002, ISO 3046.  
The engine specifications are subject to change. Please contact AL for finalising suitable engine platform for your application.

## STANDARD SCOPE

### Engine

Liquid Cooled 4-stroke Genset Engines (1500/1800 RPM) conforming to ISO 8528-1: 2005(E) specification

### Scope of Supply

- Base Engine – Fan to Flywheel with mounting legs
- Heavy Duty Spin-on Fuel, Lube & Air Filters
- Turbo-charger & Intercoolers – depending on models
- Tropical Radiator with fan guards & stone guards
- Charging Alternator & Starter Motor
- Stop Solenoid – For Manual Shutdown
- Sensors – Lube Oil Pressure & Water Temperature

### Canopy

- Open Base Skid & Soundproof Enclosure options
- Acoustic enclosure made of steel sheets and structural metal base frame.
- Pre-treated & Powder-Coated
- Metal Fuel Tank
- External Fuel Filling option
- Optimally designed for lifting options
- Emergency stop button mounted on canopy exterior



### Alternator

- Stamford/Leypower make 1PH / 3PH, 50 / 60 Hz Alternators
- Brushless, Single Bearing
- IP23 protection and Class H Insulated
- Voltage Regulation  $\pm 0.5\%$ , 0.8 PF Lag



### Controller

The unique Integrated Digital Microprocessor based Controller incorporates engine & alternator parameters in a single console. It provides the most exhaustive display of critical engine and alternator performance parameters with alarm and safety features.

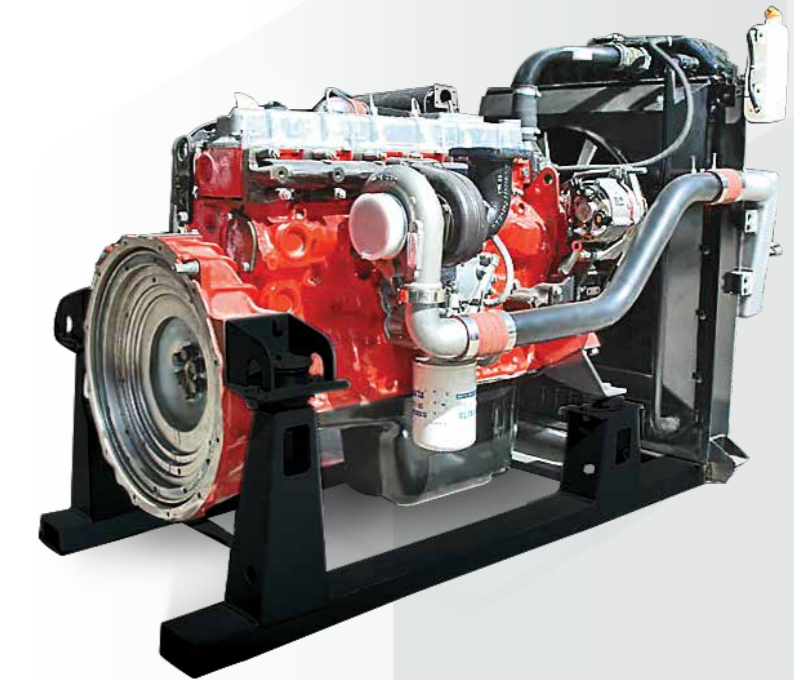
- Option of Engine Control Unit, Manual Controller, & Auto Mains Failure Controller
- User-friendly set-up for ease of use
- Fully configurable via the fascia or PC using USB communication
- Provision for Remote monitoring & Control Through GPRS (Optional) / WLAN (Optional)

## G-DRIVE ENGINES

Prime Rating (kVA)	Model	No. of Cylinders	Aspiration type	Bore (mm)	Stroke (mm)	Compression Ratio	Starting Volt (V)
40	AL4CTDG1	4	T	104	113	17.5:1	12
62.5	AL4CTIDG5	4	TA	104	113	16.5:1	12
82.5	AL4CTIDG3	4	TA	104	113	16.5:1	12
100	AL6DTIDG1	6	TA	104	113	16.5:1	12
125	AL6DTIDG2	6	TA	104	113	16.5:1	12
140/160	AL6DTIDG4	6	TA	104	113	16.5:1	12

## FEATURES OF AL ENGINE

- Robust & Rugged – Sturdy in construction, tough & resilient
- Compact & Durable – Heavy Duty
- Ever evolving technology – Latest Know-how's & Continuous product improvement
- Reliability – Well grounded, Dependable & Consistent performance
- Abreast with latest emission norms – Emission Certified to CEV BSIII/IV
- Compact Design – Higher Power to weight ratio & Lighter engine
- Wide Aftermarket Support – PAN India Service Network & Immediate customer support



# Industrial Engines

## ENGINES to EMISSION COMPLIANCE CEV BSIII (US EPA TIER III)

### H3 & H4 Platform

Engine Model	H3CTIC3R	H4CTIC3N	HT4CTIC3	H4CTICRC3
Rated Power (Gross) HP @ RPM	65 @ 2300 65 @ 2600	76 @ 2200	101 @ 2200	130 @ 2300
Max. Torque Nm @ RPM	250 @ 1700-1900	350 @ 1400-1600	390 @ 1400-1600	450 @ 1700-1900
Aspiration	TCIC	TCIC	TCIC	TCIC
Bore X Stroke mm X mm	104 x 113	104 x 113	104 x 113	104 x 113
Displacement - L	2.88	3.84	3.84	3.84
Compression ratio	16.2 : 1	17.5 : 1	17.5 : 1	17.5 : 1
Direction of rotation (from FW End)	Anticlockwise	Anticlockwise	Anticlockwise	Anticlockwise
FIP Type	Inline, Mechanical	Inline, Mechanical	Inline, Mechanical	Common Rail, Electronic
Cooling System	Water Cooled	Water Cooled	Water Cooled	Water Cooled
System Voltage V (DC)	12 / 24	12 / 24	12 / 24	12 / 24
Dry weight of the engine (Approx.)Kg	320	365	365	410

## ENGINES to EMISSION COMPLIANCE CEV BSIII (US EPA TIER III)

### H6 Platform

Engine Model	H6ETIC3RD	H6ETIC3RU	H6ETIC3RS	H6ETIMC3R323	H6ETICRC3
Rated Power (Gross) HP @ RPM	101 @ 2200	133 @ 2200 133 @ 2300 133 @ 2400	160 @ 2300	200 @ 2300	225 @ 2300 225 @ 2500
Max. Torque Nm @ RPM	450 @ 1400-1600	475 @ 1700-1900	590 @ 1700-1900	780 @ 1600-1800	800 @ 1700-1900
Aspiration	TCIC	TCIC	TCIC	TCIC	TCIC
Bore X Stroke mm X mm	104 x 113	104 x 113	104 x 113	104 x 113	104 x 113
Displacement - L	5.76	5.76	5.76	5.76	5.76
Compression ratio	17.5 : 1	17.5 : 1	17.5 : 1	16.2 : 1	17.5 : 1
Direction of rotation (from FW End)	Anticlockwise	Anticlockwise	Anticlockwise	Anticlockwise	Anticlockwise
FIP Type	Inline, Mechanical	Inline, Mechanical	Inline, Mechanical	Inline, Mechanical	Common rail, Electronic
Cooling System	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
System Voltage V (DC)	12 / 24	12 / 24	12 / 24	12 / 24	12 / 24
Dry weight of the engine (Approx.)Kg	530	530	530	530	530

\* Note: 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 IS 10002, ISO 3046. The engine specifications are subject to change. Please contact AL for finalising suitable engine platform for your application.

## ENGINES EQUIVALENT TO CEV BS III/BS IV

### Features of Neptune Engine

- Block with trussing concept
- Top Down Cooling
- Wet liner with top-end cooling
- 4Valves per cylinder - SOHC - with Rear Gear Train
- Noise optimized design
- Fuel injection - Gen 3 - 1800 bar

### Neptune Platform

Engine Model	N4	N6
Rated Power (Gross) HP @ RPM	190 – 230 @ 2300	300 – 360 @ 2200
Max. Torque Nm @ RPM	800 @ 1100-1900	1475 @ 1200 - 1600
Aspiration	TCIC	TCIC
Bore X Stroke (mm X mm)	112 x 135	112 x 135
Displacement - L	5.3	8.00
Compression ratio	17.5 : 1	17.5 : 1
Direction of rotation (from FW End)	Anticlockwise	Anticlockwise
FIP Type	CRS	CRS / Inline, Mechanical
Cooling System	Water Cooled	Water Cooled
System Voltage V(DC)	24	24
Dry weight of the engine (Approx.)Kg	615	858

\* Note: 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 IS 10002, ISO 3046. The engine specifications are subject to change. Please contact AL for finalising suitable engine platform for your application.



NA – Naturally Aspirated  
T – Turbo-Charged  
TA – Turbo-Charged After-Cooled

# Industrial Engines



## Neptune series Engines – Equivalent to CEV BS III / US EPA Tier III

### Features of Neptune Engine

Neptune series Engines – Equivalent to CEV BS III / US EPA Tier III

Features of Neptune Engine

- Block with weight optimised trussing concept
- Top Down Cooling
- Wet liner with top-end cooling
- 4 Valves per cylinder – Single Overhead Camshaft – with Rear Gear Train
- Noise optimized design
- Fuel injection – Gen 3 – 1800 bar

### Neptune Platform

Engine Model	N4	N6
Rated Power (Gross) HP @ RPM	190 – 230 @ 2300	280 – 360 @ 2200
Max. Torque Nm @ RPM	800 @ 1100-1900	1475 @ 1200 - 1600
Aspiration	TI	TI
Bore X Stroke (mm X mm)	112 x 135	112 x 135
Displacement (Liter)	5.3	8.00
Compression ratio	17.5 : 1	17.5 : 1
Direction of rotation (from FW End)	Anticlockwise	Anticlockwise
FIP Type	CRS	CRS / Inline, Mechanical
Cooling System	Liquid Cooled	Liquid Cooled
System Voltage V(DC)	24	24
Dry weight of the engine (Approx.)Kg	615	858

\* Note: 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 IS 10002, ISO 3046, ISO 1585

The engine specifications are subject to change without notice.

NA - Naturally Aspirated, T - Turbo-charged, TI - Turbo-charged Inter-cooled

# Marine Engines

Model	ALMW04D	ALM4CTI	ALM6ETI	ALM6ETI-MK1	ALM6DTI	ALMN6 - 280	ALMN6-340	ALMN6-300
No. of cylinders	4, In-line	4, In-line	6, In-line	6, In-line	6, In-line	6, CRS	6, CRS	6, In-line
Rated power	56 @ 2000	120 @ 2400	151 @ 2000	172 @ 2000	190 @ 2000	280 @ 2200	340 @ 2200	300 @ 2200
Ps @ RPM	88 @ 2800		160 @ 2400	180 @ 2400	205 @ 2500			
Aspiration type	NA	TI	TI	TI	TI	TI	TI	TI
Bore X Stroke mm X mm	104 X118	104 X 113	104 X 113	104 X 113	104 X 113	112 X 135	112 X 135	112 X 135
Displacement Litre	4	3.84	5.7	5.7	5.7	8	8	8
Low idling RPM	600	600	600	600	600	600	600	600
Max torque	250 @ 1800	410 @ 1400	550 @ 1600	660 @ 1600	750 @1500	1100 @ 1100	1360 @ 1600	1200 @ 1600
Nm @ RPM						-1400		
Fuel injection pump type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	CRS	CRS	Mechanical
Cooling water capacity Litre	10	10	24	24	24	44	44	44
Starting System V	12	24	24	24	24	24	24	24
Lubricating oil capacity (Engine) Litre	8.5	11	16	16	16	25	25	25
Engine dry weight without gearbox Kg	380	660	795	795	835	1150	1150	1150

### FEATURES OF AL ENGINE

Special Features:

Starting system - Electric starting by starter motor

Cooling system - Indirect sea water cooling with heat exchanger

NA - Naturally aspirated, TI - Turbo-charged Inter-cooled

CRS - Common Rail Fuel Injection System

The above specifications are liable to change due to continuous improvement process and are for reference only. Ashok Leyland Ltd reserve the right to revise the specifications or dimensions without notice.

