

DPK DIESEL GENSETS POWERED BY WORLD CLASS ENGINES

ONE STOP GENSET SOLUTION & SERVICE PROVIDER



RANGE 30 KVA TO 160 KVA

SUPERIOR AESTHETICS

- ▶ Single point Diesel Generator Set (DG set) solutions – supply, service and spare parts.
- ▶ State-of-the-art in-house design.
- ▶ Compact in size, smaller footprint saving money on space.
- ▶ Aesthetically superior, fully integrated weatherproof acoustic enclosure.
- ▶ Light weight design.
- ▶ Designed keeping customer convenience & usage.

ENVIRONMENT FRIENDLY

- ▶ DG set conform to low noise pollution as per CPCB II norms.
- ▶ Engines that comply with latest stringent international emission norms and with CPCB IV norms ready engines keeping the future in mind.

UNMATCHED PERFORMANCE & RELIABILITY

- ▶ Utmost reliability ensuring continuous 24x7 power availability.
- ▶ Extremely rugged & durable design: proven in toughest applications like construction equipment, material handling, marine and agriculture.
- ▶ Low life cycle cost.
- ▶ Safety against low lube oil, low fuel level, high water temperature, high cylinder head temperature, air filter choking, etc.
- ▶ State-of-the-art technology to suit operations in low/high ambient temperature, high humidity and high altitude.
- ▶ Low fuel & lube oil consumption, making it more economical
- ▶ Low noise & vibration levels.
- ▶ High block loading capacity.

MAINTENANCE FRIENDLY & EASY SERVICEABILITY DESIGN

- ▶ Ready to use design.
- ▶ Easy serviceability for routine maintenance, replacement and overhauling.
- ▶ Lower maintenance cost.
- ▶ Long maintenance intervals.
- ▶ Easy availability of spare parts.
- ▶ Minimum cost for maintenance, spares & service.
- ▶ Single point service.
- ▶ PAN India single point AMC.
- ▶ 5C warranty for 5 years.

SPECIFICATION OF DPK ACOUSTIC ENCLOSURE

- ▶ Enclosure fabricated out of CRCA MS sheets using CNC machines for high quality and long life.
- ▶ Rugged base frame fabricated out of sheet metal.
- ▶ Integral draw-out type fuel tank with convenient opening for cleaning.
- ▶ Powder coated after 12 tank surface preparation to withstand more than 1000 hrs of salt spray test as per ASTM B-117.
- ▶ Fire retardant foam / rockwool acoustic material depending upon the model.

- ▶ Stainless Steel hinged lockable doors.
- ▶ External hardware (bolts, nuts, etc.) made of Stainless Steel to avoid rusting.
- ▶ No grouting required, only a level surface capable of withstanding the DG set weight.
- ▶ Designed for installation in open-air condition.
- ▶ Lockable outside fuel filling arrangement.
- ▶ Externally accessible emergency stop button.
- ▶ Designed to operate at full load, even at 50 deg C air inlet temperature
- ▶ Noise level less than 75dB(A) at 1 meter in free field condition as per ISO3744 / ISO 8528 (Part 10).

Standard scope of supply of DG Sets

- ▶ DG sets complete with all safeties.
- ▶ Close coupled brushless alternator.
- ▶ Electric start – 12V / 24V depending upon rating.
- ▶ Control panel with Engine monitoring unit.
- ▶ Low maintenance battery with quick battery charging alternator.
- ▶ Radiator with compensating bottle.
- ▶ Integral acoustic enclosure on base frame.
- ▶ Engine and alternator mounted on base frame with Anti Vibration Mounts (AVMs).
- ▶ Silencer for noise reduction.

OPTIONAL FEATURES

- ▶ Remote monitoring.
- ▶ Additional electrical metering.
- ▶ Auto Mains Failure panel, Synchronizing panel and other special panels as per.
- ▶ Customer requirement.
- ▶ Cold start aid.
- ▶ Special air filtration system for dusty atmosphere.

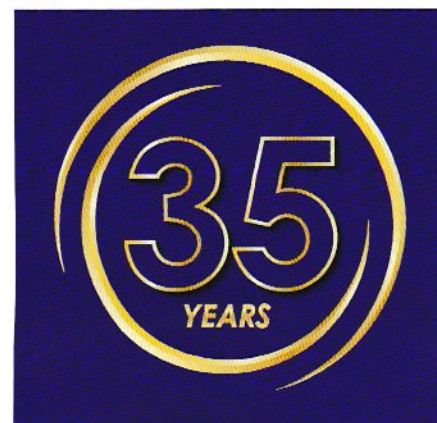
VOLVO EICHER ENGINES

- ▶ Robust engine design: Proven in toughest applications like construction equipment, material handling, marine and agriculture.
- ▶ India's 1st Euro VI manufacturing plant meeting European standards.
- ▶ Manufactured engines in India ("Make in India") built for the world.
- ▶ State of the Art Manufacturing plant with high level of automation & with a manufacturing capacity for more than 1,20,000 engines in a year for various applications.
- ▶ Remarkable fuel economy with unmatched engine protections.
- ▶ Service interval of 500 hrs or 1 year for 25KVA to 100KVA & 700 hrs or 1 year for 125KVA to 160KVA.
- ▶ 50 hrs / 100 hrs service for first time is not required.
- ▶ High block loading capacity >60%.
- ▶ 24x7 nonstop running from service to service (500 hrs continuous operation).
- ▶ Longer overhauling period because of better metallurgy.
- ▶ In-Built oil cooler for continuous operation, resulting lower lubricating oil consumption

- & does not require regular interim oil top up
- ▶ In line fuel pump across the range, having low maintenance cost and maximum uptime over rotary fuel pump.
- ▶ Piston cooling jet for increased reliability, lower break down & maximum up-time.
- ▶ Lubricating oil by-pass filter for continuous operation, increased reliability, and by-pass filter gets active once primary filter get clogged.
- ▶ Starter motor with thermal cut off arrangement to avoid the breakdown of starter motor which occurs due to over cranking.
- ▶ Air filter choke switch indicates if air choke filter is choked due to high dust.
- ▶ Commonality Of Spares Part: Engines with 4 cylinder from 30 to 62.5kVA and 6 cylinder from 82.5kVA to 160kVA with commonality of major spare parts – better availability of spare parts.
- ▶ 55 amps charging alternator for quickly charging the batteries.

LEROY SOMER ALTERNATOR

- ▶ High efficiency alternator with superior design, optimized magnetic circuit & best grade CRNGO steel that reduces eddy losses.
- ▶ Optimized ventilation circuit enhances cooling & helps attain industry best efficiency.
- ▶ Compact size and lighter alternators.
- ▶ Specially adapted to Indian Market with metallic terminal box, a termination studs for 3 phase & 2 termination for 1 phase
- ▶ 1500 rpm, 50Hz, self-excited, self-regulated brushless alternators, horizontal foot mounting, voltage regulation lesser than ±1%, cooling IC 01 conforming to IS:4722:2001, IEC 60034-1, IS:13364.
- ▶ Designed with optimum reactance values and integrated excitation system to attain higher locked rotor kVA & transient overload capability.
- ▶ Use of superior thermal resistant materials which are precisely layered to ensure optimum fit in the coil slot. The entire rotor stator system is carefully vacuum impregnated with a special insulation coating to protect it against dust and wear.



DG Set Model	kVA	kW	Engine model	bhp	Phase	Fuel consumption (ltr/hr)		Acoustic enclosure model	DG set dimension			DG set weight kg	Fuel tank capacity ltrs	Recommended Aluminium 3 1/2 core cable for 3 phase	
						75%	100%		Length mm	Width mm	Height mm			Cable size sq. mm	No. of runs
D30L3STVE / D30L1STVE	30	24	EE483TCI	38	1 / 3	5.5	6.6	AE-30/VE/STD1	2300	1000	1620	1350	95	25	1
D35L3STVE / D35L1STVE	35	28	EE483TCI	52	1 / 3	5.6	8.3	AE-40/VE/STD1	2450	1000	1855	1350	95	25	1
D40L3STVE / D40L1STVE	40	32	EE483TCI	52	1 / 3	6.4	9.4	AE-40/VE/STD1	2450	1000	1855	1350	95	35	1
D45L3STVE	45	36	EE483TCI	52	1 / 3	7.2	10.6	AE-40/VE/STD1	2450	1000	1855	1350	95	50	1
D50L3STVE	50	40	EE483TCI	65	3	9.0	12.0	AE-62.5/VE/STD1	2750	1100	2050	1450	150	50	1
D62.5L3STVE	62.5	50	EE483TCI	80	3	10.4	13.3	AE-62.5/VE/STD1	2750	1100	2050	1650	150	70	1
D82.5L3STVE	82.5	66	EE683TCI	105	3	13.0	17.0	AE-82.5/VE/STD1	3100	1100	2075	1850	160	95	1
D100L3STVE	100	80	EE694TCI	128	3	17.0	22.5	AE-125/VE/STD1	3275	1320	2200	2800	250	95	1
D125L3STVE	125	100	EE694TCI	156	3	20.5	27.7	AE-125/VE/STD1	3275	1320	2200	2800	250	120	1
D140L3STVE	140	112	EE694TCI	201	3	24.0	32.0	AE-160/VE/STD1	3800	1400	2640	3200	320	150	1
D160L3STVE	160	128	EE694TCI	201	3	27.0	36.5	AE-160/VE/STD1	3800	1400	2640	3200	320	185	1

* Fuel consumption depends on density of diesel, engine maintenance and other various factors.

* A tolerance of $\pm 5\%$ has to be considered on fuel consumption values.

* Engine power rating is at NTP conditions in accordance with IS 10002 / BS 5514.

* All DG sets are rated for prime rating.

* Electrical power outputs are in accordance with BS5000 / IS4722 for 415V, 3phase, 3 wire, 0.8power factor (lag) and 50Hz freq.

* DG set height includes silencer, exhaust hood and silencer cover heights.

* DG set width includes lifting hook and all other projections.

* Specifications are subjected to change without notice.



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