

# DPK DIESEL GENSETS POWERED BY WORLD CLASS ENGINES

ONE STOP GENSET SOLUTION & SERVICE PROVIDER



## RANGE 5 KVA TO 25 KVA

### SINGLE POINT SOLUTION FOR DIESEL GENSET REQUIREMENTS -SUPPLY, SERVICE AND SPARE PARTS FROM A SINGLE SOURCE.

#### SUPERIOR AESTHETICS

- ▶ 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 levels as per CPCB II norms.

#### UNMATCHED PERFORMANCE & RELIABILITY

- ▶ High reliability
- ▶ Extremely rugged & durable design: proven in tough applications like construction equipment, material handling, marine and agricultural equipment.
- ▶ Low life cycle cost.
- ▶ Safety against low lube oil, low fuel level, high water temperature, high cylinder head temperature.
- ▶ 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

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

#### 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.
- ▶ 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.
- ▶ 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.
- ▶ Auto Mains Failure panel, synchronizing panel and other special panels as per customer requirement.
- ▶ Cold start aid.
- ▶ Special air filtration system for dusty atmosphere.

#### ESCORTS ENGINES

- ▶ Robust engine design: Proven in toughest applications like construction equipment, marine and agriculture.
- ▶ State of the art Advanced Direct Injection (ADI) Technology for unmatched power and diesel economy.
- ▶ Plateau-honed wet liners for low lube oil consumption.
- ▶ Designed for 100% continuous operation and longer service intervals.
- ▶ Less noise and low vibration

- ▶ The most fuel efficient and low operating cost in its range.
- ▶ Compact size with highest block loading capacity in its range with block loading capacity >60%.
- ▶ Multi-tier availability of spare parts.
- ▶ Class A1 governing that gives stable operation in fluctuating loads.
- ▶ Efficient cooling mechanism and no frequent coolant top-up is required.
- ▶ Ready with CPCB IV / CPCB IV+ engines to take care of future emission norms.

#### 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
						75%	100%		Length mm	Width mm	Height mm		
D5L3STEL / D5L1STEL	5	4	G12 II	18	1 / 3	1.8	2.7	AE-15/EL/STD1	1770	1000	1660	800	80
D7.5L3STEL / D7.5L1STEL	7.5	6	G12 II	18	1 / 3	2.1	2.9	AE-15/EL/STD1	1770	1000	1660	800	80
D10L3STEL / D10L1STEL	10	8	G12	18	1 / 3	2.4	3.2	AE-15/EL/STD1	1770	1000	1660	800	80
D12.5L3STEL / D12.5L1STEL	12.5	10	G12	18	1 / 3	2.4	3.2	AE-15/EL/STD1	1770	1000	1660	825	80
D15L3STEL / D15L1STEL	15	12	G15	22	1 / 3	3.0	4.0	AE-15/EL/STD1	1770	1000	1660	850	80
D20L3STEL / D20L1STEL	20	16	G20	25	1 / 3	3.6	4.8	AE-25/EL/STD1	2000	950	1700	1050	90
D25L3STEL / D25L1STEL	25	20	G25	34	1 / 3	4.5	6.0	AE-25/EL/STD1	2000	950	1700	1050	90

- 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.



**Head Office:**

No. 109, ADA Rangamandira, Opp. Ravindra Kalakshetra, JC Road, Bangalore - 560002

**Branch:**

Durga Bhavan, 141 / 18, Rastrapati Road, Secundrabad - 500003.

**Works:**

Plot No. 218, 2nd Phase, KIADB Industrial Area, Harohalli, Kanakapura Taluk, Ramanagara District - 562112.

**+91 98456 89285 / 080 4555 3100 | marketing@dpkgroup.in | www.dpkgroup.in**