

DPK DIESEL GENSETS POWERED BY WORLD CLASS ENGINES

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



RANGE 180 KVA TO 2500 KVA

SUPERIOR AESTHETICS

- ▶ State-of-the-art in-house design.
- ▶ Aesthetically superior, fully integrated weatherproof acoustic enclosure.
- ▶ Designed keeping customer convenience & usage.

ENVIRONMENT FRIENDLY

- ▶ DG set conform to low noise levels as per CPCB II norms.
- ▶ Engines comply with latest stringent international emission norms.

UNMATCHED PERFORMANCE & RELIABILITY

- ▶ Utmost reliability ensuring continuous 24 x 7 power availability.
- ▶ Extremely rugged & durable design: proven in toughest applications like construction equipment, material handling, marine and agriculture equipment.
- ▶ 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.

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.

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 55 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.
- ▶ Auto Mains Failure panel, Synchronizing panel and other special panels as per customer requirement.
- ▶ Cold start aid.
- ▶ Special air filtration system for dusty atmosphere.

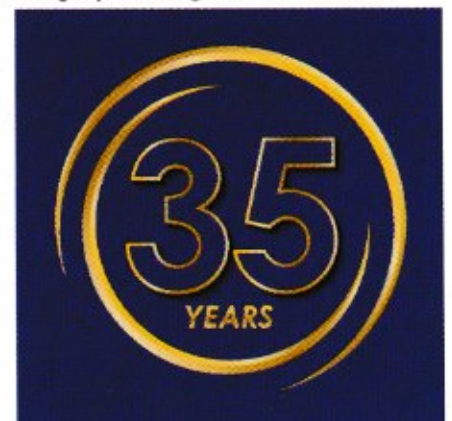
BAUDOIN ENGINES

- ▶ Robust engine design: Proven in toughest applications like marine, construction equipment and agricultural equipment.
- ▶ Designed and manufactured the highest quality engines for marine and power generation applications for over 100 years (since 1918).
- ▶ Base design is from marine application engine – robust & sturdy design.
- ▶ Easy, fast and cost-effective maintenance and servicing are imperative in marine industry.
- ▶ Cast iron cylinder block with rugged body construction designed to minimize vibrations.
- ▶ Modular cylinder head design - To ensure uniform cooling to cylinder head firing surface, better combustion and ease of maintenance.
- ▶ Crank Shaft - High-strength alloy steel.
- ▶ Cast iron wet liners, lube oil cooled aluminum alloy pistons with high performance piston rings.
- ▶ Separate cast iron cylinder heads with 4 valves for efficiency and ease of maintenance.
- ▶ High Pressure Common Rail (HPCR) with ECU control providing efficient performance in terms of power and fuel consumption.

- ▶ Full flow multilevel type oil filters along with electric pump to pre-lubricate engine, reduce friction and better start ability.
- ▶ Electronic governing with mechanical injectors.
- ▶ High Block loading load >55% for the complete range.
- ▶ High Power to weight ratio.
- ▶ Best in class fuel efficiency.
- ▶ Low Lube oil Sump Capacity.
- ▶ Low Coolant Capacity.
- ▶ Three level fuel filter, non-stop oil filter changeable even during operation.
- ▶ Special flat type oil pan - Improves reliability.
- ▶ High Strength Cylinder block - High resistance to vibrations and impact loads.
- ▶ Water jacket exhaust pipe - Cast to improve exhaust pipe reliability and service life, while reducing the inside temperature.
- ▶ Ready with CPCB IV / CPCB IV+ engines to take care of future emission norms.

LERROY 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, 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 $\pm 1\%$, 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) 75 %	Acoustic enclosure model	DG set dimension			DG set Weight Kg	Fuel tank capacity Ltrs	Recommended Aluminium 3 ½ core cable for 3 phase	
								Length mm	Width mm	Height mm			Cablesize Sq. mm	No. of Runs
D180L3STBA	180	144	6M16G180/5E3	235	3	28.1	AE-250/BA/STD1	4550	1650	2700	4100	550	95 / 240	2 / 1
D200L3STBA	200	160	6M16G225/5E3	274	3	33.9	AE-250/BA/STD1	4550	1650	2700	4100	550	120 / 300 / 400	2 / 1 / 1
D250L3STBA	250	200	6M16G250/5E3	322	3	41.9	AE-250/BA/STD1	4550	1650	2700	4500	550	70 / 150	3 / 2
D275L3STBA	275	220	6M19G320/5E3	389	3	47.7	AE-320/BA/STD1	5000	2000	3055	5250	850	95 / 150	3 / 2
D320L3STBA	320	256	6M19G320/5E3	389	3	53.6	AE-320/BA/STD1	5000	2000	3055	5550	850	95 / 120 / 240	3 / 3 / 2
D380L3STBA	380	304	6M21G440/5E3	489	3	62.2	AE-500/BA/STD1	5600	2000	3425	5850	950	150 / 300	3 / 2
D400L3STBA	400	320	6M21G440/5E3	489	3	67.1	AE-500/BA/STD1	5600	2000	3425	5850	950	150 / 400	3 / 2
D450L3STBA	450	360	6M21G500/5E3	550	3	80.9	AE-500/BA/STD1	5600	2000	3425	5850	950	185 / 500	3 / 2
D500L3STBA**	500	400	6M21G500/5E3	550	3	80.9	AE-500/BA/STD1	5600	2000	3425	6200	950	150 / 240	4 / 3
D625L3STBA	625	500	6M33D633E310	771	3	114.0	AE-750/BA/STD1	6900	2544	3625	9260	990	240 / 400	4 / 3
D650L3STBA	650	520	6M33D660E310	885	3	122.7	AE-750/BA/STD1	6900	2544	3625	9260	990	240 / 400	4 / 3
D750L3STBA	750	600	6M33D660E310	885	3	132.6	AE-750/BA/STD1	6900	2544	3625	10850	990	240 / 300	4 / 4

- * 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.
- * 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.
- * Recommended cable size is for armoured underground Aluminium 3.5 core cable considering 10% over load on 100% load.
- ** All DG sets are rated for prime rating except D500L3STBA-500KVA, which is Standby rating.



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