



DPK CPCB4+ GENSETS

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**THE POWER BEHIND YOUR
₹PROSPERITY**

EMISSION-COMPLIANT | ENVIRONMENT-FRIENDLY | SMART
ONE STOP GENSET SOLUTION & SERVICE PROVIDER



TECHNICAL SPECIFICATION OF ALL RATINGS

		25KVA	30KVA	40KVA	45KVA	60KVA	82.5KVA	100KVA	125KVA	160KVA	
Prime Rating (As per ISO8528) - KVA	KVA	25	30	40	45	60	82.5	100	125	160	
Prime Rating (As per ISO8528) - KW	KW	20	24	32	36	48	66	80	100	128	
Frequency	Hz					50Hz					
Rated Speed	RPM					1500RPM					
Power Factor	Lagging					0.8					
Phase ¹	1 ph / 3 ph					3 phase					
Voltage - 3 phase	Volts (V)					415V					
Noise Level (in Free Field Condition as per ISO3744 / ISO 8528 (Part 10)	dBA					< 75 dBA					
Fuel Tank Capacity	Litres	90	90	105	105	150	210	210	250	320	
Dimension											
Length	mm	2400	2400	2550	2550	2750	3450	3450	3500	4000	
Width (including Lifting Hooks)	mm	1060	1060	1060	1060	1160	1480	1480	1460	1460	
Height with Silencer	mm	1620	1620	1875	1875	2050	-	-	-	2610	
Height without Silencer	mm	1285	1285	1500	1500	1670	-	-	-	2000	
Height (In-Built Silencer)	mm	-	-	-	-	1760	1760	1750	-	-	
Weight	Kg	1150	1150	1250	1250	1350	1800	2100	2850	3200	
Telematics for Remote Information and Monitoring System ²	No. of yrs								7 Years		
Engine specification											
Engine Model	Model			E483TCIC			E494TCIC		E694TCIC		
Engine Brand	Make			VECV (EICHER)							
Emission Compliance	Standard			CPCB IV+							
Engine Type				4 Cylinder, Coolant Cooled, 4 Stroke, Turbo Charged Intercooled Engine, In-line type			4 Cylinder, Coolant Cooled, 4 Stroke, Turbo Charged, Direct Injection Engine, In-line type		6 Cylinder, Coolant Cooled, 4 Stroke, Turbo Charged, Direct Injection Engine, In-line type		
Rated Power BHP / KWm	BHP / KWm	38 / 28	38 / 28	57 / 42	57 / 42	74 / 55	104 / 77	128 / 94	155 / 115	200 / 148	
Rated Speed	RPM					1500RPM					
Rated Torque	NM		178		273		350	490	598	732	
Bore x Stroke	mm			100 X 105					100 X 120		
Displacement	Litres			3.3				3.8		5.7	
Compression Ratio				17.01					17.5:1		
Air Filter ³				Dry Type							
Dry Weight	Kg	427		432			557	563	718	729	
Dimensions (L x W x H)	L mm	1302		1455			1498	1487	1768	1771	
	W mm	819		848			861	1085	1085	1026	
	H mm	827		1052			1122	1071	1082	1307	
Coolant Quantity Including Radiator	Litres			13			15			27	
Engine Safeties				Oil Pressure Sensor Coolant Temperature Sensor Thermal Cut-off in Starter			Oil Pressure Sensor Coolant Temperature Sensor Urea Sensor Thermal Cut-off in Starter				
Other Features				In-built Oil Cooler Piston Cooling Jet Engine Oil & Coolant Pre-filled			In-built Oil Cooler Piston Cooling Jet 4 Valve per Cylinder Engine Oil & Coolant Pre-filled				
Sensors				Ambient Temperature Oil Pressure Coolant Temperature Crank Boost Pressure Rail pressure Cam Water in Fuel			Ambient Temperature Urea Quality & Temperature Urea Level Oil Pressure Coolant Temp RPM Sensor Boost Pressure Cam Sensor Nox Sensor SCR Temperature				
Actuator				Fuel Injector Fuel Pump			Supply Module Urea Injector Fuel Pump Metering Unit Valve Fuel Injector				
Engine Management System	Type / Make			Electronic Control / BOSCH							
Starter Motor Voltage	Volts (V)			12 V							
Battery Charging Alternator				12V / 55 A							
Fuel Pump	Make			Delphi			BOSCH				
Fuel System / Fuel Type				Common Rail Direct Injection (CRDI) / High Speed Diesel (HSD)							
EGR	Type	Hot EGR without Valve		Cold EGR with Valve			-	-	-	-	
Exhaust Treatment System - EATS				Diesel Oxidation Catalyst (DOC)			Diesel Oxidation Catalyst (DOC) + Selective Catalytic Reduction (SCR)				
Urea Consumption Cycle (% of Fuel Consumption)		-	-	-	-	-			5%		
Diesel Exhaust Fluid (DEF) Quantity / Brand		-	-	-	-	-			27 ltrs / Eicher ECO MAX		
Fuel Filter	Type			Pre Filter cum Water Separator / Main Filter							
Lube Oil Consumption - Max % of Fuel Consumption	%	0.05% of BSFC (Brake Specific Fuel Consumption)		0.1% of BSFC (Brake Specific Fuel Consumption)							
Oil Grade / Brand				10W30 CK4+ / Eicher Life Max Green Diesel Engine Oil							
Lube Oil Change Interval	Hours			700							
Lube Oil Sump Capacity	Litres			13			14.5			21.8	
Alternator											
Make				Leroy Somer / Stamford							
Rating of AC Generator	KVA / KW	25 / 20	30 / 24	40 / 32	45 / 36	60 / 48	82.5 / 66	100 / 80	125 / 100	160 / 128	
Rated Speed / Rated voltage (line to line) / Phase / Pole				1500 RPM / 415V / 3 Phase / 4 Pole							
Rated Current	Amps (A)	34.78 A	41.7 A	55.65 A	62.6 A	83.5 A	114.8 A	139.12 A	174 A	222.6 A	
Frequency / Rated Power Factor / Winding Pitch				50 Hz / 0.8 pf / Pitch 2/3							
Voltage Regulation (with 4 % Engine Governing)	%			±1%							
Insulation Class / Temperature Rise Limit	Class			H							
Over Load				10% Over Load for 1 Hour Once in 12 Hours & for 150% for 30 sec							
Total Harmonic Distortion				No-Load < 2%							
Nominal Ambient Temperature / Altitude				-15 to +40 °C / ≤1000 m							
Type of Alternator				Brushless / Self-Excited and Self-Regulated / Double Layer Lap Winding / IP23							
Analogue AVR Model				R120 / AS540			R120 / AS440				
Standard Control Panel⁴											
Control Panel Type with AMF Sensing				Manual / IP54 / with AMF Sensing							
Controller Make / Model / Modes of Operation				DEIF / SGC 120 MKII / Auto, Manual and Remote Start-Stop							
Display				Full Graphics LCD, Backlit Full Graphics LCD with Power Saving Feature for Extended Battery Lifetime							
MCB / MCCB - Current	Amps (A)	50 A	63 A	80 A	100 A	125 A	160 A	200 A	250 A		
Battery Charging Unit (BCU)				12V DC / 10 A							
Current Transformer (CT) Coils - Primary Current	Amps (A)	50 A		75 A		100 A	150 A	200 A	200 A	250 A	
Current Transformer (CT) Coils - Class						Class 1					
Kilo Watt Hour (KWH) Meter - Type				Analog Counter Type							
Remote Information & Monitoring Module (RIMM) ⁵				No			Yes				
Audible Annunciation System (AAS) as per CPCB Norms				-			Yes				
Battery											
Battery Make / Battery Capacity (Ah)				TATA Green / 80Ah			TATA Green / 130Ah				
Warranty				Warranty for DPK DG Sets is for 2 years / 24 months or 5000 hrs from the Date of Commissioning, whichever is Earlier Subject to Use VECV / Eicher Oil, VECV / Eicher Genuine Filters, DPK Coolant, VECV / Eicher DEF and Service Sourced from DPK or its Authorised Dealer or Authorised Representative / Associate.							
Service Schedule				50hrs - Oil Change Only & Every 700 Hrs or 1 Year, Which Ever is Earlier.							

¹ Single phase DG set is available for 25KVA, 30KVA, 40KVA, 45KVA & 62.5KVA ratings.

² Telematics for Remote Information and Monitoring System as per System and Procedure for Compliance to Revised Emission Standards (dated 03.11.2022) for Power Generating Set Engines Appendix A.4.

³ Special air filtration system for dusty atmosphere.

⁴ Auto Mains Failure panel, Synchronizing panel and other Special panels as per customer requirement are available.

⁵ Remote Information & Monitoring Module (RIMM) is available for 30KVA to 60KVA at extra chargers.

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

* A tolerance of ±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.

Unique Selling Points



- ❖ Single point solution for diesel genset requirements – Supply, service and spares from a single source.
- ❖ 40 years of manufacturing, supply and service of Diesel Generating Sets.
- ❖ World class state-of-the-art 1,00,000 sq ft facility for DG set manufacturing.
- ❖ Pan India and International service support.
- ❖ Greener emissions confirming to CPCB4+ norms – Reduced NOx levels & Advanced EATS system
- ❖ State-of-the-art in-house design.
- ❖ Compact in size, smaller footprint saving money on space.
- ❖ Aesthetically superior, fully integrated weatherproof acoustic enclosure.
- ❖ Designed keeping customer convenience & usage.
- ❖ 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).
- ❖ Designed for installation in open-air condition.
- ❖ Powder coated after 12 tank surface preparation to withstand more than 1000 hrs of salt spray test as per ASTM B-117.
- ❖ Stainless Steel hinged lockable doors.
- ❖ External hardware (bolts, nuts, etc.) made of Stainless Steel to avoid rusting.
- ❖ Lockable outside fuel filling arrangement.
- ❖ Externally accessible emergency stop button.



- ❖ World class technology.
- ❖ Best in class fuel efficiency.
- ❖ Low operating cost.
- ❖ High block loading capacity.
- ❖ 24/7 non-stop operation at 100% load.
- ❖ Extremely low engine vibration.
- ❖ Superior reliability.
- ❖ Extremely rugged & durable design: Proven in toughest applications like construction equipment, material handling, marine and agriculture.
- ❖ State-of-the-art technology to suit operations in low/high ambient temperature, high humidity and high altitude.
- ❖ Maintenance friendly & easy serviceability design - Low maintenance cost, Long maintenance intervals & Easy availability of spare parts.
- ❖ **First Top Overhaul of EICHER Engines is at 12000-14000 hours** which is more than twice of its contemporary makes available in India, because of better metallurgy.
- ❖ **In-Built Oil Cooler:** Ideal for Continuous Operation and Lower Lubricating Oil Consumption. Our Engines does not require regular interim oil top up.
- ❖ **Starter Motor with Thermal Cut off arrangement:** It helps to avoid the breakdown of Starter Motor which occurs due to over cranking.
- ❖ 55 amps charging alternator for quickly charging the batteries.



Industries



Hospitals & Health Care



Educational Institutions



Commercial Complexes



Infra & Construction



IT Companies

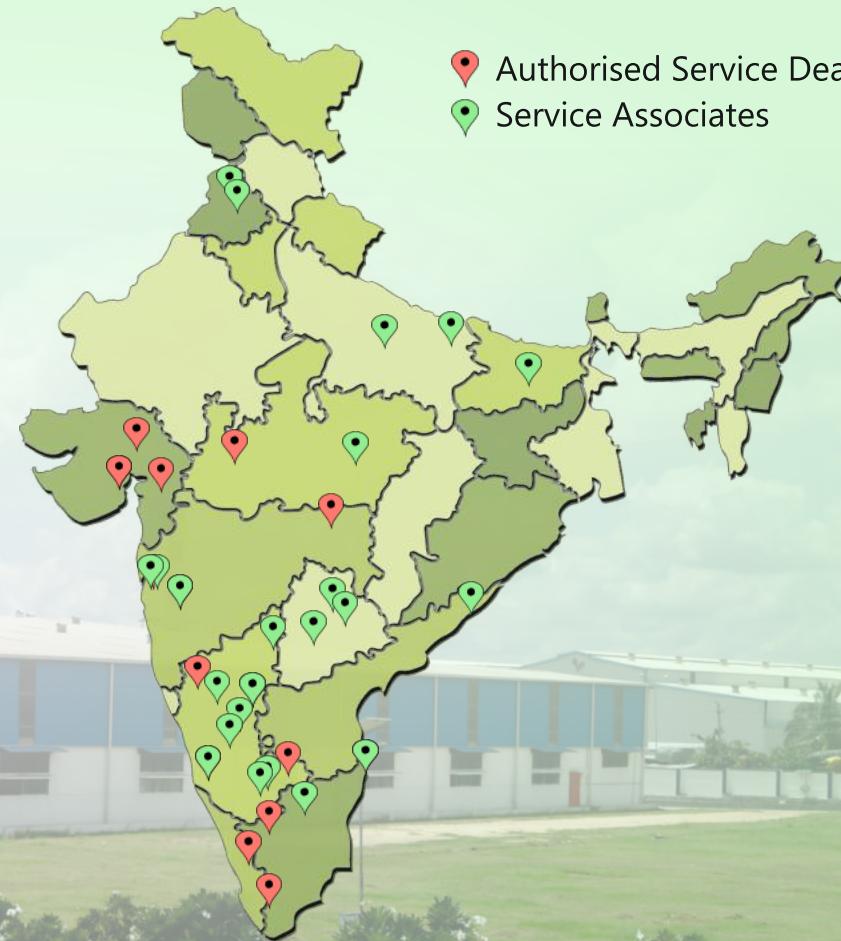


Hospitality Industry



Rail & Water Projects

Our Service Network



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Plant:

Plot No. 218, 2ndPhase,
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Harohalli, Kanakapura Taluk,
Ramnagara District - 562 112.

*Terms & Conditions Apply
Map Not to Scale