

**THE POWER BEHIND YOUR
PROSPERITY**
EMISSION-COMPLIANT | ENVIRONMENT-FRIENDLY | SMART
ONE STOP GENSET SOLUTION & SERVICE PROVIDER



Powered by
EICHER
VE COMMERCIAL VEHICLES
A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE



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	940		
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 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 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 conforming 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



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IT Companies



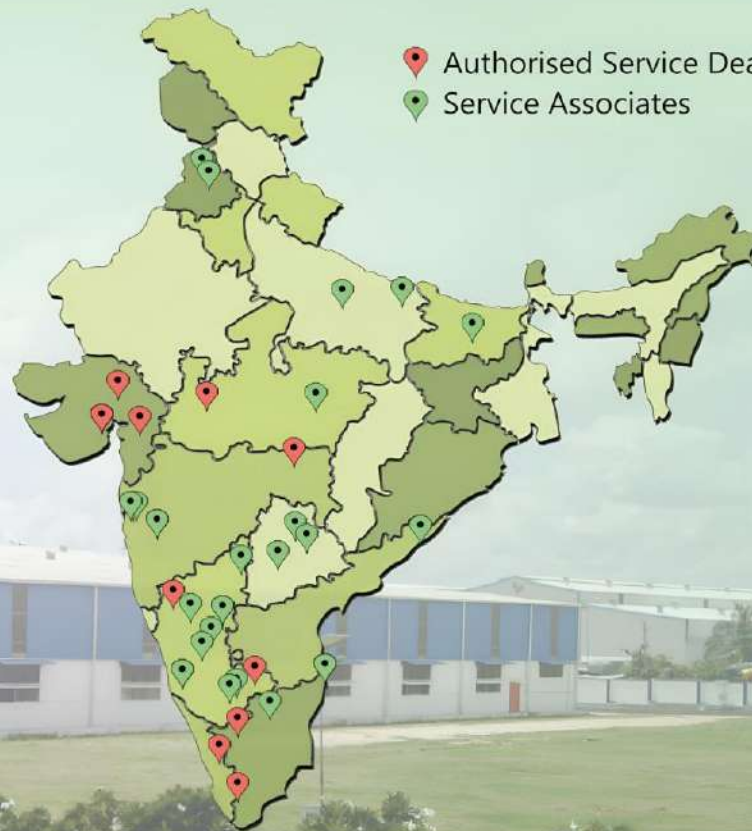
Hospitality Industry



Rail & Water Projects

Our Service Network

- Authorised Service Dealers
- Service Associates



Contact Us:



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Our Branches (TN)

- * Madurai
- * Trichy
- * Pondicherry
- * Salem
- * Coimbatore
- * Hosur

Branches (Other States)

- * Bengaluru
- * Hyderabad
- * Nellore
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*Terms & Conditions Apply
 # Map Not to Scale