



**VE COMMERCIAL VEHICLES**  
A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE

# **/ VOLVO EICHER** **160 kVA** **DIESEL GENERATOR SET**

FUEL EFFICIENT | RELIABLE | DURABLE | CPCB IV+



Lower  
Emissions



Proven  
Technology



Reliable  
Performance



Easy  
Maintenance



**POWERING  
A SUSTAINABLE  
TOMORROW**



**TECHNO  
POWER SYSTEMS**  
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS

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# / TECHNICAL SPECIFICATIONS

## 160 kVA DIESEL GENERATOR SET

| S. No. |  | Parameter                      | Specification (160 kVA)                                         |
|--------|--|--------------------------------|-----------------------------------------------------------------|
| 1      |  | Model                          | E694                                                            |
| 2      |  | Engine Type                    | In-line 6 Cylinder, 4 Stroke, Turbocharged & Intercooled (TCIC) |
| 3      |  | Displacement                   | 5.7 Litres (5650 cc)                                            |
| 4      |  | Bore × Stroke                  | 100 mm × 120 mm                                                 |
| 5      |  | Rated Power (Engine)           | 200 HP @ 1500 rpm                                               |
| 6      |  | Compression Ratio              | 17:01                                                           |
| 7      |  | Aspiration                     | Turbocharged & Intercooled (TCIC)                               |
| 8      |  | Air Cleaner                    | Dry Type                                                        |
| 9      |  | Cooling System                 | Liquid Cooling                                                  |
| 10     |  | Total Coolant Capacity         | 21.8 Litres                                                     |
| 11     |  | Total Lubricating Oil Capacity | 27 Litres                                                       |
| 12     |  | Fuel Tank Capacity             | 300 Litres                                                      |
| 13     |  | DEF / AdBlue Tank Capacity     | 25 – 27 Litres                                                  |
| 14     |  | Rated Speed                    | 1500 rpm (50 Hz)                                                |
| 15     |  | Voltage / Current              | 12 V / 55 A                                                     |
| 16     |  | Fuel Injection System          | CRDi (Common Rail Direct Injection)                             |
| 17     |  | After Treatment System         | DOC + SCR                                                       |
| 18     |  | Approx. Dry Weight (Genset)    | 2400 kg                                                         |
| 19     |  | Approx. Dimensions (L × W × H) | 3800 × 1400 × 2272 mm                                           |



**EICHER E694**

**200 HP @ 1500 rpm**



**RUGGED &  
RELIABLE DESIGN**



**HIGH PERFORMANCE  
ENGINE**



**CPCB IV+  
COMPLIANT**



**EASY SERVICE  
& MAINTENANCE**



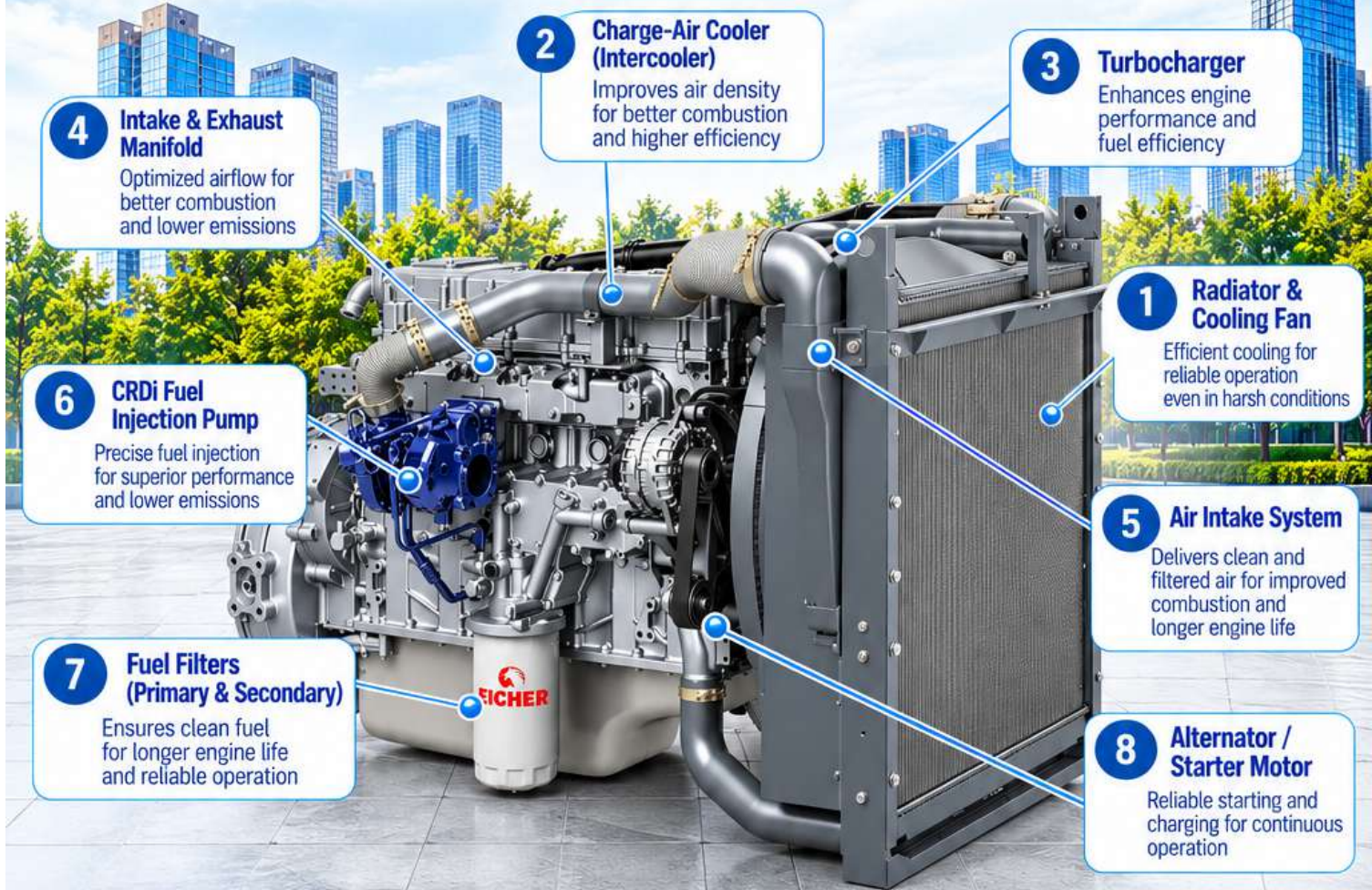
**CPCB IV+  
LOWER EMISSIONS  
CLEANER TOMORROW**



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# **/EICHER E694 ENGINE FOR 160 kVA GENERATOR SET**



## **KEY ADVANTAGES**



**HIGHER  
PERFORMANCE**  
200 HP @ 1500 rpm  
for reliable power  
generation



**FUEL  
EFFICIENT**  
Advanced CRDi  
technology for  
lower running cost



**LOW  
EMISSIONS**  
Meets CPCB IV+  
standards for a  
cleaner environment



**DURABLE &  
RELIABLE**  
Proven E694 engine  
design for continuous  
duty operation



**EASY  
MAINTENANCE**  
Global support  
and readily available  
service network



**CPCB IV+**

**LOWER EMISSIONS  
CLEANER TOMORROW**



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CLEANER ENERGY  
GREENER TOMORROW

# ALTERNATOR TECHNICAL SPECIFICATIONS FOR **160 kVA** PRIME GENSET

RELIABLE ALTERNATOR  
FOR UNINTERRUPTED  
POWER SUPPLY



## BRUSHLESS WITH AVR

Stable and reliable  
voltage output



## SINGLE BEARING

Rugged and  
dependable design



## CLASS H INSULATION

Higher temperature  
with enhanced reliability



## ±1% VOLTAGE REGULATION

Ensures consistent  
power quality



**415 V**  
3-PHASE

**50 Hz**  
RATED FREQUENCY

**1500 RPM**  
RATED SPEED

**0.8**  
POWER FACTOR  
(LAGGING)

## ALTERNATOR SPECIFICATIONS

**160 kVA PRIME**

|                            |                                         |
|----------------------------|-----------------------------------------|
| Alternator Type            | Brushless with AVR, Single Bearing      |
| Phase                      | 3 Phase                                 |
| Voltage                    | 415 V (3 Phase)                         |
| Voltage Regulation         | ±1% of rated voltage                    |
| Rated Speed / Frequency    | 1500 rpm / 50 Hz                        |
| Power Factor               | 0.8 (Lagging)                           |
| Insulation Class           | Class H                                 |
| Bell Housing               | SAE 3/10                                |
| Permitted Alternator Makes | Stamford / Leroy Somer / CG / Mecc Alte |

## COMPATIBLE ALTERNATOR MAKES

**STAMFORD®**

**LEROY SOMER™**

**CG**

Power and Industrial Solutions

**mecc alte**

Alternator make may vary by supplied  
configuration: Stamford / Leroy Somer / CG / Mecc Alte.

## KEY ADVANTAGES



### STABLE VOLTAGE OUTPUT

Ensures safe operation  
of sensitive equipment



### LOW MAINTENANCE

Brushless design  
for longer service life



### CLASS H INSULATION

Withstands higher  
temperatures for  
enhanced reliability



### RELIABLE OPERATION

Suitable for continuous  
duty in demanding  
conditions



### EFFICIENT 3-PHASE POWER DELIVERY

Ideal for commercial,  
industrial and critical  
applications

## TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross,  
Avalahalli, Bengaluru, India, 560026



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POWERING  
YOUR NEEDS  
SINCE 2000.



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# DEIF SGC 120 Mk II

ADVANCED GENSET CONTROLLER FOR RELIABLE POWER MANAGEMENT

The DEIF SGC 120 Mk II is a compact and versatile genset controller designed for single and multiple generating sets. It provides reliable control, protection and monitoring to ensure safe, efficient and uninterrupted power supply under all operating conditions.



## RELIABLE OPERATION

Proven technology ensuring stable and uninterrupted power supply.



## USER-FRIENDLY INTERFACE

Intuitive navigation with clear display for easy monitoring and configuration.



## COMPREHENSIVE PROTECTION

Monitors and protects engine and alternator from critical fault conditions.



## FLEXIBLE APPLICATION

Supports single or multiple genset operation with AMF, parallel and load sharing capabilities.



## EASY INTEGRATION

Compatible with a wide range of engines, alternators and communication protocols.



### LCD DISPLAY

Clear and easy to read



### EASY CONFIGURATION

Flexible parameter settings



### REAL-TIME MONITORING

Engine, alternator and system parameters



### MULTIPLE OPERATION MODES

AMF, Parallel and Load Sharing

## KEY ADVANTAGES



### IMPROVED RELIABILITY

Ensures continuous power availability



### REDUCED DOWNTIME

Early fault detection and alarms



### OPTIMISED PERFORMANCE

Efficient load management



### LOWER OPERATING COSTS

Smart control for fuel savings



### FUTURE READY

Supports modern communication and integration needs



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# **FUEL CONSUMPTION**

## **LOWER OPERATING COSTS, HIGHER SAVINGS**



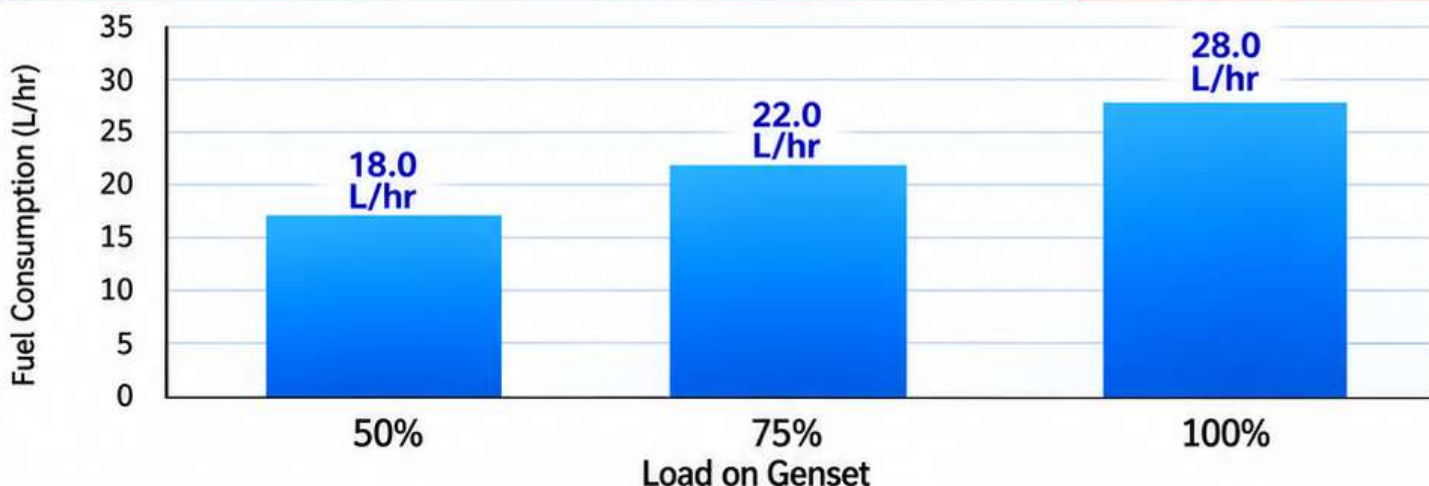
### **Optimised for Better Fuel Efficiency**

The Eicher E694 engine with CRDi technology ensures efficient fuel utilisation across varying load conditions, resulting in lower operating costs.



### **FUEL CONSUMPTION (TYPICAL VALUE)\***

**160 kVA**



\* Typical fuel consumption for 160 kVA Eicher E694 engine based on standard reference conditions. Actual values may vary based on site conditions, fuel quality and application.



UP TO  
**15–20%**  
**BETTER FUEL EFFICIENCY**



**DEF / AdBlue®**  
**Tank Capacity**  
**25 – 27 Litres**

Helps in lower emissions and cleaner operation (CPCB IV+ compliant).



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# WHY **VOLVO EICHER** BUILT FOR TOMORROW

Volvo Eicher Diesel Generator Sets are engineered to deliver reliable, efficient and sustainable power solutions, built on decades of global expertise and trusted engineering excellence.



## TRUSTED LEGACY

Backed by Volvo Group and Eicher Motors engineering expertise



## FUTURE READY

Advanced technology for evolving power needs



## SUSTAINABLE

Cleaner, greener and more efficient power



## ROBUST ENGINEERING



- Proven and durable design
- Built for continuous operation
- Reliable performance in demanding conditions



## FUEL EFFICIENCY



- Advanced CRDi technology
- Optimised fuel consumption
- Lower operating costs



## LOWER EMISSIONS



- CPCB IV+ compliant technology
- Cleaner and greener power generation
- Supports a sustainable tomorrow



## RELIABLE POWER SUPPLY



- Uninterrupted power for critical applications
- Consistent performance
- Designed for diverse power needs



## EASY MAINTENANCE



- Service-friendly design
- Wide service network
- Lower downtime and higher productivity

**POWERING  
A SUSTAINABLE  
TOMORROW**