

REGISTERED OFFICE

SUPERNOVA ENGINEERS LIMITED
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Branches

BENGALURU : #4C, 209, 4th Cross, East of NGEF, Kasturinagar, Bengaluru - 560 043. Tel.: +91-8025422394 /+91-8884425503

CHENNAI : 1B & 1C, Shivanandam Complex, 3rd Floor, Pulla Avenue, Thiru Vi Ka Park, Shenoyanagar, Chennai - 600 030, Tel.: 094433 86416

COIMBATORE : No.81, Dr. Nanjappa Road, Chenny's Chamber, Coimbatore - 641 018, Tel.: 0422 4959414

DELHI / NCR OFFICE : 702, 7th Floor, Dlf Star Tower, Opp. Exit -8 On Delhi Jaipur Highway, Sector-30, Gurugram, Haryana 122002. Ph : 0124-4038116

HYDERABAD : 6 & 7, Premises No. 1-7-319, 3rd Floor, Panchsheel Towers, Park Lane, Secunderabad - 500 003. Tel.: +91-9133268190.

INDORE : 206, 2nd FLOOR, ROYAL RATAN BUILDING, 7 M G ROAD, INDORE 452001 (MP)

LUCKNOW : 2 nd floor, D5, sector E LDA colony Kanpur road , Lucknow. Pin 226012

MUMBAI : 204/205, Agrawal arcade-VI, Nr Juinagar Railway Station, Sector-1, Nerul, Navi Mumbai-Pune Road, Navi Mumbai: 400406

PATNA : B-22, Luv Kush Tower, Exhibition Road Crossing, Patna - 800 001, Tel.: 099343 60092

PUNJAB : SCF 29, 3rd Floor, Phase 5, Mohali, Punjab 160059.

RANCHI : 502, Estate Plaza, Kantatoali, Old HB Road, Behind Mangal Tower, Ranchi - 834 001, Tel.: 099343 60092

MFG. FACILITIES

RAJPUR- : 1470/1, Village Rajpur, Tal, Kadi, Dist. Mehsana, North Gujarat,
MEHSANA : Tel.: 7069004225 / 7069004226

SILVASSA : Survey No. 263/3/2/1, Silvassa Dadra Nagar Haveli. Tel.: 0260-2681069

Authorised Dealer for :



Address :

SUPERNOVA
Eco Series

10 kVA TO 62.5 kVA



SUPERNOVA



Supernova Diesel Electric Gensets are powered by "ESCORTS" Diesel Engine ranging from 10 kVA to 62.5 kVA. The complete DG Set range is CPCB II Complaint & NAL (National Aerospace Agency) approved. Each Supernova Diesel Electric Genset is manufactured under stringent quality assurance process and undergoes in-house testing. Engine corresponds to ISO 3046, BS 5514 and DIN6271. The technical data applies to an engine operating on a fuel with a calorific value of 42.7 MJ/Kg (10200 Kcal/Kg) and a density of 0.86 Kg/Liter(7.01 LB/us gal). AC Generator performance corresponds to IEC-34, IS-4722.

Salient features:

- | 2 to 4 Cylinder in Line up to 62.5 KVA DG Set
- | Low Operating cost & Maintenance cost
- | Compact Size for easier transportation and installation
- | Higher Block loading Capability
- | Ready to Use
- | Suitable For Outdoor application
- | Reliable technology product : Value for Money
- | All Safety Features
- | Environment Friendly
- | CRDI Engine
- | 5C Warranty
- | Higher Capacity Radiator for 50 Deg C operation

Types for D.G. Sets

- | Silent D.G.Sets
- | Trolley Mounted D.G. Sets

Rating Guidelines:

Prime Power : Prime Power rating corresponds to ISO standard power for continuous operation,. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. This is as per ISO 8528.

Service Support:

- PAN India spares availability through strategically located stock points across the country.
- Services offered through a strong network of seven area offices and resident engineers located at Tier II and Tier III cities and through service dealers.

Warranty:

·All equipments have a warranty either against faulty workmanship or manufacturing defects for a period of 26 months from the date of dispatch or 24 months from the date of commissioning or 5000 operating hours, whichever occurs first. This warranty is back to back basis by respective engine and alternator manufacturers. This shall however exclude rubber parts and electrical gauges, faults due to mishandling, misuse or improper operation and maintenance.

·This warranty applies only if the services and spares during the warranty period and entrusted to Supernova Engineers Ltd. The warranty shall become null and void if the services and spares during the warranty are provided by any unauthorized vendor.

Standard Scope Comprising Of:

Diesel Engine / AC Generator / base frame / Standard Control Panel / Radiator / Silencer / Battery & Battery Cables / AVMs / First Fill of Lub. Oil / First Fill of Coolant / D.G. Set Controller / Fuel Tank / Wiring Harness / Sensors

Options Available:

- | Electrical Options: Auto Mains Failure
- | Controllers & Switchgears : Specific makes are available optionally.

Rating Table



| SUPERNOVA DIESEL GENERATING SET (Escorts) | | | | | | | | |
|---|------------------------------------|--|--------|--------------------|----------------------------|------------|--------------------|-----------|
| | Model | SE 10 | SE 15 | SE 20 | SE 25 | SE 30 | SE 40 | SE 62.5 |
| DG SET | kVA/kW | 10(8) | 15(12) | 20(16) | 25(20) | 30(24) | 40(32) | 62.5(50) |
| | Duty | Prime | | | | | | |
| | Frequency/ Speed | 50 Hz/1500 RPM | | | | | | |
| | Voltage/ No. of Phase | 230 Volts / 1 phase & 415 Volts / 3 Phase | | | | | | |
| | Power Factor | 0.8 | | | | | | |
| | Rated Current (Amps) | 13.9 | 20.85 | 27.8 | 34.8 | 41.7 | 55.6 | 87.6 |
| | Fuel tank capacity (Ltrs) | | | | | | | |
| Shipping Dimensions (L X W X H) in mm | 1875 X 1000 X 1350 | | | 2500 X 1300 X 1300 | | | 3000 X 1153 X 1675 | |
| | | | | | | | | |
| DIESEL ENGINE | Engine Make | ESCORTS | | | | | | |
| | Engine Model | G12 | G15 II | G20 II | G25 TCI | G30 TCI-II | G40 TCI | G62.5 TCI |
| | BHP | 18 | 23 | 27.6 | 37 | 46 | 58 | 88 |
| | No. of Cylinder | 2 | 2 | 3 | 3 | 3 | 4 | 4 |
| | Type of Fuel | High Speed Diesel (HSD) | | | | | | |
| | Cylinder Arrangement | Inline | | | | | | |
| | Type of cooling | Liquid cooled | | | | | | |
| | Bore x Stroke (mm) | 91 X 110 | | | | | | 98 X 122 |
| | Compression Ratio | 17.5 : 1 | | | | | | |
| | Displacement(Ltrs) | 1.43 | 1.56 | 2.145 | 2.145 | 2.145 | 2.86 | 3.68 |
| | Governor | Mech / A1 | | | | | | |
| | Aspiration | Naturally Aspirated | | | Turbocharged & Intercooled | | | |
| | Type of Lub. Oil | SAE 15W 40 CI 4+ | | | | | | |
| | Oil sump capacity(ltrs) | 5.5 | | 6.5 | | | 8.5 | 11 |
| | Lube oil change period | 500 Hours / 6 Months | | | | | | |
| | Coolant capacity(ltrs) | 7.1 | | 10.9 | 14.5 | | 16 | 16 |
| | Recommended Radiator Coolant Type. | 1:1 Glycol-water | | | | | | |
| Engine starting system | 12 V.DC | | | | | | | |
| No. of Battery | 1 | | | | | | | |
| Battery capacity | 100AH | | | | | | | |
| ALTERNATOR | Make | Leroy Somer/ Crompton | | | | | | |
| | Class of Insulation | Class H | | | | | | |
| | Enclosure | IP 23 | | | | | | |
| | Voltage regulation | +/-1% | | | | | | |
| | Overload capacity | 10% overload for 1 Hour in every 12 hours of operation | | | | | | |
| CONTROL PANEL | Metering | Voltage, Current, Frequency, RPM | | | | | | |
| | Function | Start/Stop | | | | | | |
| | Protections | Low lub. oil pressure, High water temperature, Auto shut down visual & alarm | | | | | | |
| | Electrical Safeties | Over load & Short circuit | | | | | | |
| | Location | Inbuilt in Canopy | | | | | | |