

**SUPERNOVA**  
Eco Series

30 kVA to 160kVA



**CPCB IV+**  
COMPLIANT



# SUPERNOVA

G E N S E T S

Power Up

Established in 1985, Supernova Engineers Ltd. is a leading Diesel Electric Genset manufacturer. Supernova Gensets ECO Series is powered by Eicher Diesel engines ranging from 30 kVA to 160 kVA. Each Supernova Genset is manufactured under a stringent quality assurance process and undergoes rigorous in-house testing in state-of-art manufacturing facility conforming to ISO 3046, BS 5514 and DIN6271.

## Salient Features :



Low  
Maintenance



700 Hr/1 Yr  
service interval



Excellent block loading  
capacity with > 55%



No deration up to 45 Deg C  
& 1000 Mtr height



Compact canopy with  
top lifting/Low Foot print



Remote  
Monitoring



2 Yr/ 5000 Hrs standard warranty  
+ 5C warranty of 5yr/5000 Hrs  
whichever is earlier.

## Standard Scope Comprising Of :

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

## Options Available :

- ATS/Sync Controller & Sync Panel
- PMG alternator, Space heater

## Service Support :

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

## Warranty :

All equipment 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.



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## Genset Specifications:

Generator Model	SVE - 30 IV+	SVE - 45 IV+	SVE - 60 IV+	SVE - 82.5 IV+	SVE - 100 IV+	SVE - 125 IV+	SVE - 160 IV+
Duty	Prime	Prime	Prime	Prime	Prime	Prime	Prime
Power Rating kVA / kWe	30/24	45/36	60/48	82.6/66	100/80	125/100	160/128
No. of Phases	3	3	3	3	3	3	3
Output Voltage and Frequency (V and Hz)	415V/50Hz	415V/50Hz	415V/50Hz	415V/50Hz	415V/50Hz	415V/50Hz	415V/50Hz
Power Factor	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Current (A) FLC	41.74	62.61	83.47	114.78	139.12	173.91	222.60
RPM	1500	1500	1500	1500	1500	1500	1500
<b>Engine Specification:</b>							
Make	VECV	VECV	VECV	VECV	VECV	VECV	VECV
Model	E483TCIC	E483TCIC	E483TCIC	E494 TCIC	E494 TCIC	E694 TCIC	E694 TCIC
Power (hp)/Kw	58/28	58/43	74/55	103/77	126/94	154/115	198/148
Cooling	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled
Aspiration	TCIC	TCIC	TCIC	TCIC	TCIC	TCIC	TCIC
No. of cylinders	4	4	4	4	4	6	6
Bore (mm) x Stroke (mm)	100X105	100X105	100X105	100X120	100X120	100X120	100X120
Compression ratio	17:01	17:01	17:01	17:01	17:01	17:01	17:01
Displacement (litre)	3.3	3.3	3.3	3.8	3.8	5.7	5.7
Performance class of generator set	G3 as per ISO8528- 5			G3 as per ISO8528- 5			
Fuel Consumption(Ltr/Hr) @ 75% Load	6.4	8.6	11.1	13.5	17.9	22.8	27.5
Starting system	12 V Electrical	12 V Electrical	12 V Electrical	12 V Electrical	12 V Electrical	12 V Electrical	12 V Electrical
Lube oil specification	10W30 CK4						
Total lubrication system capacity (Litre)	10.5	10.5	10.5	14.5	14.5	21.8	21.8
Lube oil consumption	0.08%			0.05%			
Total coolant capacity (litre)	8			15		27	
Exhaust treatment system	DOC			DOC + SCR+Ammonia Dosing			
DEF/Ad Blue capacity in Ltrs	NA			27			
DEF/Ad Blue consumption	NA			7 to 8 % Fuel Consumption			
<b>Alternator Specification:</b>							
Alternator Make	Stamford/LS/Crompton	Stamford/LS/Crompton	Stamford/LS/Crompton	Stamford/LS/Crompton	Stamford/LS/Crompton	Stamford/LS/Crompton	Stamford/LS/Crompton
Alternator Frame	S0L2P1/LSAP42.3C	S2L1DD/LSAP42.3G	S2L1DE/LSAP42.3K	S2L1DG/LSAP44.3B2	S3L1DC/LSAP44.3C	S3L1DD/LSAP44.3D	S3L1DF/LSAP44.3H
Genset Dimension (LXWXH) mm	2620X1000X1350	2620X1000X1350	2620X1000X1350	3850X1250X1830	3850X1250X1830	3850X1250X1830	4000X1250X1830
Fuel tank capacity (Ltrs)	115	115	115	250	250	250	400
Weight(Kg)	1050	1070	1180	1890	1940	2190	2270
Control panel	AMF Logic Control Panel inside in Acoustic Enclosure						
Controller	DIEF-120	DIEF-120	DIEF-120	DIEF-120	DIEF-120	DIEF-120	DIEF-120

\*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.

\*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- 34,15-4722.



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## HEAD OFFICE :

### SUPERNOVA ENGINEERS LIMITED



First Floor – 2, B-Wing, Shapath  
Hexa, Opp. Gujarat High Court, S.G.Highway,  
Ahmedabad – 380 060. Gujarat.



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Scan to Visit Us:



### Branches :

- BANGALORE :** SUPERNOVA ENGINEERS LTD, Unit # 208, Level – 2, Prestige Centre Point, No.7, Edward Road, Bangalore – 560052, Karnataka
- CHENNAI :** SUPERNOVA ENGINEERS LTD, Las Tower, Old No.13A, New No.61/2, 18/2, Velachery Main Road, Little Mount, Saidapet, Venkatapuram, Chennai – 600015, Tamil Nadu
- COIMBATORE :** SUPERNOVA ENGINEERS LTD.,No.81,Dr.Nanjappa Road, Chenny's Chamber, Coimbatore-641018. Tamil Nadu.
- HYDERABAD :** SUPERNOVA ENGINEERS LTD., H.No. – 1-98/9/12A, 3rd Floor, Jain Enclave, T & A Plaza, Plot No. 12-A, Survey No.71/1, Madhapur, Hyderabad – 500081, Andhra Pradesh
- MUMBAI :** Supernova Engineers Ltd, Unit No 609, 6<sup>th</sup> Floor, Lodha Supremous II, Road No 22, Wagle Estate, Thane (W). – 400604
- PATNA :** SUPERNOVA ENGINEERS LTD, B-22, 2ND FLOOR, LUV KUSH TOWER, EXHIBITION ROAD, KADAMKUAN, PATNA – 800001, Bihar
- RANCHI :** SUPERNOVA ENGINEERS LTD, 502, 5th Floor, Estate Plaza, Kantatoli, Old HB Road, Behind Mangal Tower, PS Lower Bazaar, Ranchi – 834001, Jharkhand
- SURAT :** SUPERNOVA ENGINEERS LTD, Office No. 502/503, Western Business Park, Opp. SD Jain School, University Road, Vesu, Surat – 395007, Gujarat

### Mfg. Facilities :

- RAJPUR :** 1470/1, Village Rajpur, Tal. Kadi Dist. Mehsana  
+91 70690 04225 / +91 70690 04226
- SILVASSA :** Survey No. 263/3/2/1, Plot No. 1, Village – Sayali Silvassa, (Dadra Nagar Haveli)

**SERVICE TOLL-FREE NO.**  
**1800 313 6009**