

**SUPERNOVA**  
Eco Series

180 kVA to 320kVA



**CPCB IV+**  
COMPLIANT

Established in 1985, Supernova Engineers Ltd. is a leading Diesel Electric Genset manufacturer. Supernova Gensets ECO Series is powered by Mahindra Diesel engines ranging from 180 kVA to 320 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.



# SUPERNOVA

G E N E R A T O R S

Power Up

## Genset Specifications:

Generator Model	SM - 180 IV+	SM - 200 IV+	SM - 250 IV+	SM - 320 IV+
Duty	Prime	Prime	Prime	Prime
Power Rating kVA / kWe	180/144	200/160	250/200	320/256
No. of Phases	3	3	3	3
Output Voltage and Frequency (V and Hz)	415V/50Hz	415V/50Hz	415V/50Hz	415V/50Hz
Power Factor	0.8	0.8	0.8	0.8
Current (A) FLC	250.42	278.25	347.81	445.20
RPM	1500	1500	1500	1500
<b>Engine Specification:</b>				
Make	M&M	M&M	M&M	M&M
Model	H6725G4	H6725G4	H6935G1	H6935G2
Power (hp)/(Kw)	247/182	247/182	310/228	390/287
Cooling	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled
Aspiration	TCIC	TCIC	TCIC	TCIC
No. of cylinders	6	6	6	6
Bore (mm) x Stroke (mm)	105 X 137	105 X 137	116.6 X 146.1	116.6 X 146.1
Compression ratio	17.2 : 1	17.2 : 1	17.2 : 1	17.2 : 1
Displacement (litre)	7.12		9.3	9.3
Performance class of generator set	G3 as per ISO8528- 5			
Starting system	12 V Electrical	12 V Electrical	24 V Electrical	24 V Electrical
Lube oil specification	15W40 Ci4+			
Total lubrication system capacity (Litre)	20.2	20.2	35	35
Lube oil consumption	0.10%			
Total coolant capacity (litre)	24		31	45
Exhaust treatment system	DOC + SCR+Ammonia Dosing			
DEF/Ad Blue capacity in Ltrs	35		50	
DEF/Ad Blue consumption	7 to 8 % Fuel Consumption			
<b>Alternator Specification:</b>				
Alternator Make	Stamford/LS/Crompton/Mecalte	Stamford/LS/Crompton	Stamford/LS/Crompton	Stamford/LS/Crompton
Alternator Frame (Stamford/Leroy)	S3L1DG/LSAP45MO	S3L1DH/LSAP45M1	S3L1DK/LSAP45L1	HCI444D/LSAP45C
Genset Dimension (LXWXH) mm	4220X1600X2500	4220X1600X2500	4220X1600X2500	4220X1600X2500
Fuel tank capacity (Ltrs)	500	500	500	500
Weight(Kg)	3225	3290	3730	3830
Control panel	Auto Start Panel inside enclosure	Auto Start Panel inside enclosure	Auto Start Panel inside enclosure	Auto Start Panel inside enclosure
Controller	SEDMAC-GC1116	SEDMAC-GC1116	SEDMAC-GC1116	SEDMAC-GC1116

\*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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G E N S E T S

Power Up

## 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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### 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**