

SUPERNOVA
Eco Series

180 kVA TO 320 kVA



Authorised Sales Dealer :-



SAI POWER
SALES & SERVICE

SUPERNOVA



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SALES & SERVICE

Supernova Diesel Electric Gensets are powered by "Mahindra & Mahindra" Diesel Engine ranging from 180 kVA to 320 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-60034-1 & IS: 13364.

Salient features:

- | 6 Cylinder in Line from 180 KVA to 320 KVA
- | 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

Types for D.G. Sets

- | Silent 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: AMF Panel
- | Controllers & Switchgears : Specific makes are available optionally.

Rating Table



SUPERNOVA DIESEL GENERATING SET (Mahindra & Mahindra)					
	Model	SM180	SM200	SM250	SM320
DG SET	kVA/kWe	180 (144)	200 (160)	250 (200)	320 (256)
	Duty	Prime			
	Frequency/ Speed	50 Hz/1500 RPM			
	Voltage/ No. of Phase	415 Volts / 3 phase			
	Power Factor	0.8			
	Rated Current (Amps)	250	278	347	445
	Fuel tank capacity (Ltrs)	450	450	450	450
	Dimensions (L X W X H) in mm	4020 x 1896 x 2152	4320 x 2045 x 2455		4780 x 2196 x 2660
DIESEL ENGINE	Approx. Weight in Kgs.	2500	2500	3000	3200
	Engine Make	M Power			
	Engine Model	mPower 62235G	mPower 62485G	mPower 63105G	mPower 63905G
	BHP	223	248	310	390
	No. of Cylinder	6			
	Fuel Injection System	CRDI			
	Cylinder Arrangement	Inline			
	Type of cooling	Liquid cooled			
	Bore x Stroke (mm)	105 x 137	105 x 137	116.6 x 146.1	116.6 x 146.1
	Compression Ratio	16.8 : 1	16.8 : 1	17.2 : 1	17.2 : 1
	Displacement(Ltrs)	7.2 Ltrs	7.2 Ltrs	9.3 Ltrs	9.3 Ltrs
	Governor	Electronic			
	Aspiration	TCA			
	Type of Lub. Oil	15W40 API CI4			
	Oil sump capacity(ltrs)	20.2	20.2	35	35
	Lube oil change period	500 Hours			
	Coolant capacity(ltrs)	24	24	36	54
	Recommended Radiator Coolant Tvoe.	1:1 Glycol-water			
	Engine starting system	2 x 12 V.DC			
	No. of Battery	2			
Battery capacity	2 x 150AH				
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			



Authorised Dealer for :



Power Up

An ISO 9001 : 2015 Certified Company

SAI POWER

SALES & SERVICE

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