

NOT JUST ECONOMICAL.
POWER THAT'S ECOLOGICAL.

SUPERNOVA ECO SERIES



10 TO 180 KVA

Powered by



== VE COMMERCIAL VEHICLES ==
A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE.



SUPERNOVA
G E N S E T S

Power Up

An ISO 9001 : 2008 Certified Company

Powered by



Standard Specifications

ENGINE

Volvo-Eicher Diesel Engine

VE Commercial Vehicles- Joint Venture between Sweden's Volvo group & Eicher Motors has started manufacturing medium duty diesel engines in technologically most advanced Engine Manufacturing plant at Pithampur. This Engine meets Euro Emission Standards.

Cooper Diesel Engine

Rickardo (UK) design manufactured by Cooper India.

Four stroke in line Multi cylinder, Turbocharged / After cooled/Inter cooled, direct injection / CRDI, 1500 RPM, heavy duty industrial diesel engine generally comprising radiator, fuel filters, lube oil filters, air filters, battery charging dynamo/ alternator, starter motor, fuel injection system and engine instrument panel.

The engine performance corresponds to ISO 3046, ISO 8528, BS 5514 and DIN 6271.

Recommended Fuel Specifications

To obtain cost effective and environmentally friendly operations, the fuel should comply with one of the following market standards:

ASTM-D975 No.2-D or BS 2869 Class A1, A2.

MOUNTING ARRANGEMENT

The complete D.G. set is mounted on a heavy duty fabricated and welded M.S. base frame. The base frame incorporates a well designed crane lifting facility.

CONTROL PANEL

Manufactured from

CRCA sheet & fabricated cubical. It is scientifically designed and made as per relevant IS/BS specifications. It houses most reliable and sophisticated switch gear relays, meters and controls.

Options

Auto mains failure comprising Microprocessor based digital controller.

Fuel Systems

A standard capacity fuel tank with level indicator is supplied with the D.G. set. Fuel system return lines to engine are terminated at the edge of the base frame.

Starting

All D.G. sets have 12/24V DC electric starting facility. They are supplied with heavy duty lead acid batteries (dry & uncharged) along with battery leads as per the design requirements.

Documentation

A full set of operation and maintenance manuals, circuit wiring diagrams, test certificates of engine and AC generators are supplied with each D.G. set.

GENERAL

Factory Tests

The D.G. set is load tested on our test bay before dispatch. All faults, control functions and site load conditions are simulated and the generator along with its system is passed for dispatch after approval.

Equipment Finish

All sheet metal components are fully de-greased and zinc phosphate coated for protection prior to painting. The engine and AC generator are thoroughly cleaned and finished with high quality paint.

Warranty

All equipments have a warranty either against faulty workmanship or manufacturing defects for a period of 24 months from the date of supply or 18 months from the date of commissioning or 5000 operating hours, whichever occurs first. This warranty is supported by our respective principals, engine and AC generator 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 are 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.

Spares & Services

Our country-wide network of branches and dealers ensure to provide 24 x 7 services and availability of genuine spares.

Acoustic Enclosure

Supernova introduces state-of-art series of acoustic enclosure that ensure reduction of noise pollution. Thousands of such enclosures have already been designed, manufactured and supplied to various market segments including telecom industries, information technology parks, hospitals, multiplexes, hotels, residential and commercial complexes etc.

Super Silent Acoustics

The Super Silent acoustic enclosure for special noise pollution requirements as an alternative to standard acoustic enclosure is also available.

SUPERNOVA ECO SERIES GENSETS

DG RATINGS	DG SET	Model	SC 20	SC 25	SC 30	SVE 40	SVE 50	SVE 62.5	SVE 82.5	SVE 100	SC 125	SC 140	SC 160	SC 180			
		Rated KVA	20	25	30	40	50	62.5	82.5	100	125	140	160	180			
		Rated KW	16	20	24	32	40	50	66	80	100	112	128	144			
		Power Factor	0.8														
		Frequency	50														
		Voltage	415	230	415	230	415	230	415								
		Phase	3	1	3	1	3	1	3								
		Rated Current	27	83	35	104	41	125	56	70	87	115	139	174	195	223	251
		Noise Level at 1 mtr. Under Free Field Conditions	75 dB(A)														
SPECIFICATIONS	ENGINE	Make	COOPER				VOLVO-EICHER				COOPER						
		Model	2A2D1C-19	2A2D1A-25	2A2D1A-30	EE483TC	EE483TC	EE483TCI	EE683TCI	EE683TCI	4B2D1C-113	6B2D1C-150	6B2D1C-150	6B2D1C-170			
		BHP	26	36	43	52	65	80	105	128	154	204	204	231			
		No. of Cylinders	2			4	4	4	6	6	4	6	6	6			
		Cylinder Arrangement	Inline														
		RPM	1500	3000	3000	1500											
		Type of cooling	Liquid cool Radiator														
		Bore x Stroke(mm)	87x100				100x105				107x126						
		Compression Ratio	17.5:1				17:01				17.5:1						
		Governor	Electronic				Mech.										
		Aspiration	TCIC				TC				TCIC						
		Type of lubricate Oil	15W40CH4				Eicher 15W40				15W40CH4						
		Oil Sump Capacity (Ltrs)with Filters	4.5				11	11	11	16	16	8.5	11.5	11.5	11.5		
		No. of filters	1				2				1						
		Recommended Lub. Oil change Period. Hrs.	500														
		CONTROL PANEL	Metering	Voltage, Current, Frequency, RPM (KWH meter Optional upto 82KVA)							Voltage, Current, Frequency, RPM, KWH meter.						
			Functions	Start/Stop													
MCB of 20A to 60A 3P MCCB of 80A to 250A manual fixed	1no																
Protections	Low Lub. Oil pressure, High water Temp. Auto shut				Low Lub. Oil pressure, High water Temp. Auto shut down visual & alarm												
Electrical Safeties	Over Load & Short circuit																
Location	Inbuilt in Canopy																
BATTERY	Engine starting System	12V.DC							24V DC								
	No. of Battery	1							2								
	Battery Recommended Cold Crank Amp.	60Ah				88Ah				100Ah							
OTHER ITEMS	Radiator coolant Capacity(ltrs)Incl. engine.Lit.	5				10	12	14	18	18	14	15					
	Recommended Radiator Coolant Type	1:1 Glycol-water															

KVA	SEL MODEL	CANOPY DIMENSION			FOUNDATION DIMENSION			APPROX WEIGHT
		L	W	H	L	W	H	
20	SC 20	2175	1000	1550	2600	1400	200	1025
25	SC 25	2175	1000	1550	2600	1400	200	1025
30	SC 30	2175	1000	1550	2600	1400	200	1025
40	SVE 40	2500	1000	1400	2900	1400	200	1500
50	SVE 50	2800	1160	1660	3200	1600	200	1600
62.5	SVE 62.5	2800	1160	1660	3200	1600	200	1700
82.5	SVE 82.5	3350	1160	1660	3750	1600	200	2100
100	SVE 100	3350	1160	1635	3750	1600	200	2225
125	SC 125	3350	1160	1860	3750	1600	200	2350
140	SC 140	3350	1600	1975	3900	2000	200	2775
160	SC 160	3350	1600	1975	3900	2000	200	2830
180	SC 180	3350	1600	1975	3900	2000	200	2900

All diamention are in mm.
depth of foundation depends upon soil hardness and testing
The weight and dimension of enclosure above are approximate only and are subjectto change
as per shipping convenience or the company reserve the right to make alternations in the dimension.

Registered Office & H. O. : Supernova Engineers Ltd.

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E hc@supernovagenset.com **W** www.supernovagenset.com



BRANCHES:

CHENNAI :

1 B & 1C, SIVANANDHAM COMPLEX, 3RD FLOOR, PULLA AVENUE, THIRU.VI.KA.PARK,SHENOY NAGAR, CHENNAI – 600 030
TEL. : 044-2664 3294 / 2664 1245

HYDERABAD :

6 & 7 PREMISES NO. 1-7-319, 3RD FLOOR, PANCHSHEEL TOWERS, PARK LANE, SECUNDERABAD – 500 003.
TEL.: 040-3295 6001, FAX : 040- 6631 0040

MUMBAI :

204/205, AGRAWAL ARCADE – VI, NR. JUHINAGAR RLY. STATION, SECTOR-I, NERUL, NAVI MUMBAI – PUNE ROAD,
NAVI MUMBAI – 400 706.

DELHI / UP:

B-220, PACIFIC BUSINESS PARK, 37/1, SITE-IV, SAHIBABAD INDUSTRIAL AREA, GHAZIABAD, (UP) – 201010.

PATNA:

501, K.D. VIHAR, EAST BORING CANAL ROAD, OPP. LAXMI NURSING HOME, PATNA, BIHAR.

BANGALORE:

ZEENAT POINT, 1ST FLOOR, NO.: 138 & 139, 6TH C MAIN ROAD, JAYANAGAR 4TH BLOCK, BANGALORE – 560 041.

MANUFACTURING FACILITIES:

RAJPUR – MEHSANA:

1470/1, VILLAGE RAJPUR, TEL.KADI, DIST. MEHSANA, NORTH GUJARAT. TEL.: 02764 3824852/56

SILVASSA: (100% EXPORT ORIENTED UNIT)

SURVEY NO.: 263/3/2/1, SILVASSA DADRA NAGAR HAVELI. TEL.: 0260-2681069

Authorised Dealer