



**POWERING
GROWTH WITH
RELIABLE
TECHNOLOGY.**



**RUGGED
DEPENDABLE
RESPONSIVE**



400 kVA to 2500 kVA

Powered by



Diesel Power

SUPERNOVA
G E N S E T S

Power Up

An ISO 9001 : 2015 Certified Company

Supernova Engineers Ltd. has been producing generator sets for more than 30 years now. We manufacture diesel gensets ranging from 7.5 to 2500 kVA offering Standard, AMF and Synchronized types of D.G. sets. The Gensets upto 1000 kVA are type approved by the National Aerospace Laboratory, Bengaluru and also meets the required CPCB-II emission norms (Govt. of India). In the year 1987, Supernova established its first plant at Rajpur near Ahmedabad. By the year 1992, we were able to install around 5000 gensets. We went a step further and tied up with international giants like AB Volvo Penta, Sweden and Perkins Engines, U.K. in the year 1995 and 2009 respectively. This partnership helped bring world-class technology to Indian shores.

As a company that has been constantly investing in the latest technology, we have installed 'Trupunch 2020' machines from Trumpf - a high volume automated punching machine capable of producing sheet metal parts automatically.

Supernova's next plant was established at Silvassa (UT) We made sure that utmost care was taken in producing high quality gensets by recruiting the best possible personnel for administering the manufacturing process. Supernova's combined production capacity of both the plants has reached to more than 16,000 - 17,000 gensets / annum. By now, Supernova's Rajpur plant has become one of the largest genset manufacturing plants in India with an industrial land area of 3,50,000 sq. ft.

Supernova gensets are known for high quality. The maintenance cost is low with optimal fuel economy, these gensets offer superior service at all times. Supernova has always laid emphasis on top of the class service. And this is evident, given its unmatched 24x7, 365 days a year after sales support offices spread across India. Apart from this, Supernova offers annual maintenance contract during the warranty period and even after its expiry.

SUPERNOVA PERKINS DIESEL POWER SERIES

RADIATOR COOLED									
PRIME POWER									
1500 RPM (50 Hz)									
GENSET MODEL	ENGINE MODEL	3 Ph. 415 V, 0.8 PF			L	W	H	Dry Weight (Approx.) DG set only (in Kg.)	Total Weight incl. Acoustic Enclosure (in Kg.)
		BHP	kVA	kWe					
SP 400	2206D-E13TAG3	492	400	320	5550	2000	2790	4500	5400
SP 500	2506D-E15TAG2	607	500	400	5600	2200	3020	5700	6900
SP 625	2806D-E18TAG1A	724	625	500	5600	2200	3020	6100	7400
SP 750	4006D-23TAG2A	894	750	600	6900	2600	3760	7000	9900
* SP 800	4006-23TAG3A	945	800	640	6900	2600	3760	7200	9939
SP 1010	4008 TAG2A	1206	1010	808	8312	2600	3760	7800	13340
SP 1250	4012-46TAG0A	1497	1250	1000	9112	2600	3760	11700	16456
SP 1375	4012-46TAG1A	1597	1375	1100	9112	2600	3760	12000	16800
SP 1500	4012-46TAG2A	1785	1500	1200	9112	2600	3760	12000	17354
SP 1700	4012-46TAG3A	2006	1700	1360	9112	2600	3750	12400	18150
SP 1850	4016-61TRG1	2208	1850	1480	10363	3300	3950	16500	23233
SP 2000	4016-61TRG2	2377	2000	1600	10363	3300	3950	17500	24033
SP 2250	4016-61TRG3	2647	2250	1800	10363	3300	3950	17900	25081

Above Models are also available in Heat Exchanger Cooled System.

Also available for exports.

* Only for Export

RATING GUIDELINES

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.

STAND BY POWER rating corresponds to ISO fuel stop power. It is applicable for supplying standby electrical power at variable load in area with well-established electrical networks, in the event of power failure. No overload capacity is available with this rating.

POWER STANDARDS

Engine Performance corresponds to ISO 3046, BS 5514, SAE J1349 and DIN 6271. 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 0.84 Kg/liter (7.01 lb/US gal). Engine speed governing is in accordance with ISO 3046, Class A1 and ISO 8528 Class G2.





TECHNICAL DATA

GENSET MODEL	SP 400*	SP 500*	SP 625*	SP 750*	SP 800	SP 1010
Engine Model	2206D-E13TAG3	2506D-E15TAG2	2806D-E18TAG1A	4006D-23TAG2A	4006-23TAG3A	4008-TAG2A
Type	4 Stroke Water Cooled 1500 RPM Diesel Engine					
No. of Cylinder & Arrangement	6 Vertical In-Line					8 Vertical In-Line
Governor	Electronic					
Fuel System	DIRECT INJECTION SYSTEM WITH UNIT INJECTORS					
Bore x Stroke (mm x mm)	133 X 157	137 X 171	145 X 183	160 X 190		
Compression Ratio	15.8:01	16:01	18:01	13.6 : 1		
Starting System	24 V DC Electric					
Lead Acid type Battery	2 Nos. 180 AH					
Fuel day tank capacity (Ltrs.)	550	870	870	990		
Coolant capacity incl. Radiator (Ltrs.)	52	54	57	85	149	
Lube. Oil Capacity incl. Oil Filters (Ltrs.)	40	62	71	113.4		153
Lube. Oil Specification	API CI4 15W/40					
Recommended fuel specification	ASTM.D975 No.2-D or BS2869 Class A2 or BSEN 590					
Dare D.G. Set Dimensions (LxWxH) in mm	3700 x 1700 x 2000	4000 x 1100 x 2000	4100 x 2000 x 2010	4000 x 1690 x 2160		4650 x 2050 x 2560

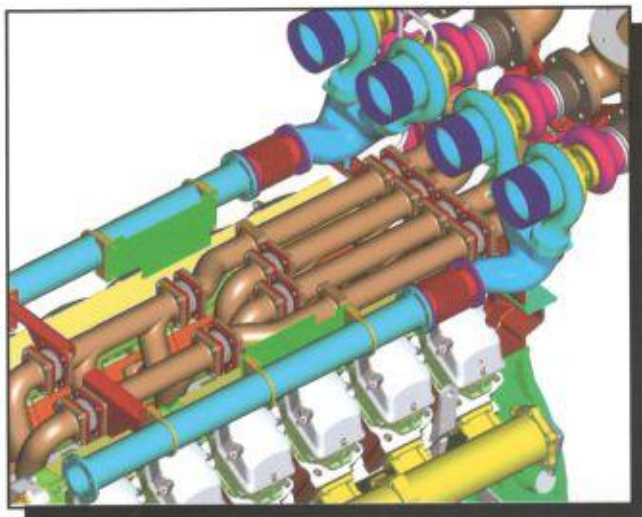
*Supply with Acoustic Enclosure as per CPCB-II Norms.

GENSET MODEL	SP 1250	SP 1375	SP 1500	SP 1700	SP 1850	SP 2000	SP 2250
Engine Model	4012-46TAG0A	4012-46TAG1A	4012-46TAG2A	4012-46TAG3A	4016-61TRG1	4016-61TRG2	4016-61TRG3
Type	4 Stroke Water Cooled 1500 RPM Diesel Engine						
No. of Cylinder & Arrangement	12 VEE				16 VEE		
Governor	Electronic						
Fuel System	DIRECT INJECTION SYSTEM WITH UNIT INJECTORS						
Bore x Stroke (mm x mm)	160 x 190						
Compression Ratio	13.6 : 1						
Starting	24 V DC Electric						
Lead Acid type Battery	4 Nos. 180 AH						
Fuel day tank capacity (Ltrs.)	990						
Coolant capacity incl. Radiator (Ltr)	210	210		550			
Lube. Oil Capacity incl. Oil Filters (Ltrs)	177					213	
Lube. Oil Specification	API CI4 15W/40						
Recommended fuel specification	ASTM.D975 No.2-D OR BS2869 Class A1, A2						
Approx. D.G. Set Dimensions (LxWxH) in mm	5400 x 2200 x 2650				5800 x 3000 x 3400		

Note: Continuous developments in the product entitles us to change technical specifications, dimensions, scope of work etc.

PERKINS ADVANTAGES

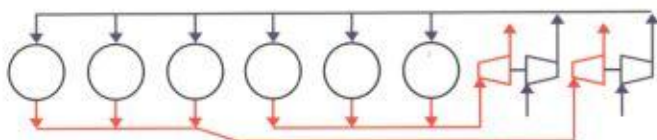
- Excellent power to weight ratio.
- Low operating cost & maintenance cost.
- Low gaseous emissions for clearer operation.
- Compact size for easier transportation and installation.
- Commonality of components over the entire range of engines.
- Designed to provide excellent service access for ease of maintenance.
- High block loading capability due to split exhaust and air intake system.
- Control of piston temperature by an advanced gallery jet cooling system.
- 6 cylinders in-line engine for 750 & 800 kVA, 8 cylinders in-line for 1010 kVA, 12 cylinders V engine from 1250 to 1700 kVA D.G. set application.
- Parts stock points across India
- Service availability in each State



Advance Engine Technology Featuring:

- Split exhaust manifold system (SEMS) to facilitate highest block loading capacity.
- Service interval - 500 hours.
- Separate filtered jet cooling system.
- Lowest fuel consumption across the entire load pattern.
- Maintain less number of cylinders for 750, 800, 1010 & 1700 kVA D.G set.
- **SOS technology** available for high oil change interval and better engine life.

SPLIT EXHAUST MANIFOLD SYSTEM (SEMS):



Unit Injection System:

- Ultra fine fuel atomisation, hence control rapid combustion.
- Eliminates the need for external high pressure fuel pipes.
- Fuel quantity control.
- Negligible carbon deposit, less wear and tear and longer engine life.

Our Prominent Clientele :

Adani Wilmer (Fortune Oil)	Hero Moto Corp Ltd	Ministry of Defence , GOI	Piramal	SCOPE – Delhi
Al Shifa Hospital	HIC ABF	Ministry of Space (ISRO – Sri Harikotta)	Project Implementation Unit (Civil Hospital)	Siddhi Vinayak Cement (Nirma)
Alembic	IISER	Moulana Azad Institute of Dental Science	Rajagiri Hospital	Siemens
Amneal Pharma	Indian Parliament House	MRF Ltd	Reliance ADA Global Head Quarter	Simpolo Group
Berger Paints	IOCL	MTS	Reliance Industries	Tech Mahindra
BHEL	Jindal Steel & Power Limited	NBCC	Reliance Jio	TNTPO
BSNL	JWS Ispat	NDMC	Reliance petro Chem.	Torrent Group
CPWD	Kumar Properties	NHPC	Reliance Communication	Ultra-tech Cement
Delhi Sachivalay	L& T Hyderabad Metro	NMDC	Renfro	Well-known Polyester
DS Grop	L& T SUCG	NTPC	Research & Analysis Wing (RAW)	Wockhardt Hospital
Ferromatic Milacron	L&T Info-city	ONGC	Rockline Mall	Zydus Group
GSPL	L&T ECC	Ordinance Equipment Factory	Rupa Solitaire	
Havmor Ice Cream	Mackson Tiles	Peerless	Sabar Dairy	

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E : marketing@supernovagenset.com



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	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) - 201 010.
	PATNA	: B22, Luv Kush Tower, Exhibition Road Crossing, Patna-800001, Bihar
	BANGALORE	: #4C, 209, 4th Cross East of NGEF, Kashturi nagar, Bangalore. Landline : 080-25422394
	RANCHI	: 502, Estate Plaza, Kantatoali, Old HB Road, Behind Mangal Tower, Ranchi-834001, Jharkhand.
MFG. FACILITIES :	RAJPUR-MEHSANA	: 1470/1, Village Rajpur, Tal. Kadi, Dist. Mehsana, North Gujarat. Tel.: 7069004225/7069004226
	SILVASSA	: Survey No. 263/3/2/1, Silvassa Dadra Nagar Haveli. Tel.: 0260-2681069
	(100% Export Oriented Unit)	