



SUPERNOVA
EURO Series

400 kVA to 650kVA



CPCB IV
Compliant

POWERED BY
Perkins
Diesel Power

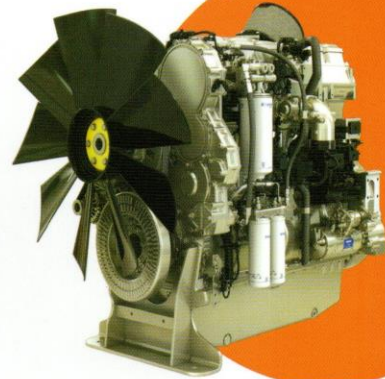
the power
to move you

Established in 1985, Supernova Engineers Ltd. is a leading Diesel Electric Genset manufacturer. Supernova Gensets EURO Series is powered by Perkins Diesel engines ranging from 400 kVA to 650 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 9001, ISO 14001, ISO 45001.

Engine :

Perkins 2800 Series 6 Cylinder Inline Engine

- Prime power with 10% Overload
- Ambient capability - 50°C
- High block load acceptance: 50 - 55%* of prime within ISO8528-5 class G2
- High altitude capability 1750 m @ 40°C w/o fuel derate
- Mechanical Electronic Unit Injection (MEUI-C fuel system)
- Advanced A6E4 engine mounted ECM controls (full authority electronic control engine)
- Low emission, high efficiency engine
- Advance DOC + SCR after treatment
- No exhaust gas recirculation (EGR) or No diesel particulate filter (DPF)
- Compact, Robust and Rugged Design
- 500 hours lube-oil change period
- Engine conforms to ISO 3046/1: 2002 standard reference conditions.



AC Generator :

- Brushless, single bearing, self-excited, self-regulated type.
- Enclosure IP23
- Winding Pitch 2/3
- Voltage regulation (Max.) +/-1%
- Class of insulation - H class Temperature rise limit - Class H
- Make of alternator - Leroy Somer/Stamford or equivalent.
- Conforming to IS 13364 & IS/IEC 60034-1
- Conforming to IS 13364 & IS/IEC

Control Panel :

- Microprocessors based AMF controller (DEIF-SGC-420 or equivalent)
- Graphical LCD display with best in class monitoring and diagnostic functionality
- Remote monitoring compatibility.
- MCC/ACB of reputed make
- **Optional:**
 - Synch controller
 - Auto changeover panel
 - Auto synchronizing auto load sharing panel



Acoustic Enclosure :

- Specially designed enclosure meeting CPCB norms of 75 dBA @ 1 mtrs.
- Acoustic enclosure made of high quality CRCA sheets and structural steel base frame.
- Powder coated with state of art 7 tank pre-treatment -suitable for outdoor installation.
- High quality noise absorbent acoustic insulation material.
- 4 point top lift.

Standard Accessories :

- Day Fuel Tank
- Silencer
- Batteries & Battery Cables
- Cushy Foot Mounts
- First Fill of Lub Oil / Coolant
- First Fill of D.E.F Fluid

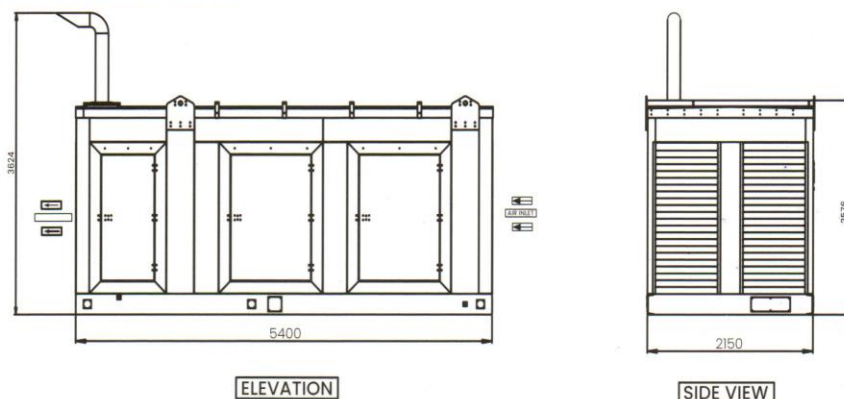
Genset Specifications :

Genset Model	SP 400 IV+	SP 525 IV+	SP 650 IV+
Duty	Prime	Prime	Prime
Power Rating kVA / kW _e	400/320	525/420	650/520
Output Voltage and Frequency (V and Hz)	415V/50Hz		
Power Factor	0.8		
Rated Current (A)	556	730	904
Engine Make	Perkins		
Model	2806FA-E18TAG1	2806FA-E18TAG1	2806FA-E18TAG2
Power gross (Hp/kWm) @1500 rpm	605/451	605/451	745/556
Cooling	Radiator /Liquid cooled		
Aspiration	Turbocharged, Air to Air Aftercooled		
No. of cylinders	6		
Bore (mm) x Stroke (mm)	145X183		
Compression ratio	16:01		
Displacement (litre)	18.13		
Performance class of generator set	G2 as per ISO8528- 5		
Starting system	24 V Electrical		
Lube oil specification	CK4		
Total lubrication system capacity (Litre)	72		
Total coolant capacity (litre)	71		
After treatment system	DOC+SCR+AMOX		
DEF capacity Ltr	66		
Alternator Make	Stamford/Leroy Somer or equivalent		
Alternator Frame	HCI444F/LSAP47A2	HCI544E/LSAP47EO	HCI554F/LSAP47F
Standard Control panel	Manual start/Auto start panel with MCCB/ACB inside enclosure		
Controller	DEIF SGC 420		
Fuel tank capacity ltr	990		

* 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.

* A 10% overload is available for 1 hour in every 12 hours of operation.

Overall Genset Dimension :



HEAD OFFICE :









SUPERNOVA ENGINEERS LIMITED

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Branches :

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-  **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)

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