

 2824, Blvd M'Siri, Opp. JAC Motors,
Lubumbashi, DRC.
 +243 8600 20200  sales@volttexsarl.com
 www.volttexsarl.com



SUPERNOVA

LHP Series

20KVA to 200KVA



SUPERNOVA

MHP Series

400KVA to 600KVA



SUPERNOVA

HHP Series

750KVA to 2500KVA

ABOUT US

VOLTEX SARL – Reliable & Ready

VOLTEX is a leading provider of reliable and ready power solutions, proudly serving as an authorized distributor of Supernova Gensets. With a strong commitment to quality and performance, We deliver advanced generator systems designed to meet the growing demands of industrial, commercial, and residential sectors.

As a one-point solution provider, We offer a complete range of services—from, generator supply and installation to customization, long-term maintenance services & standard spare parts. Our partnership with Supernova Gensets ensures that our clients receive high-quality, durable, and technologically advanced power solutions they can depend on.

Understanding that each customer has unique power requirements, **VOLTEX** specializes in tailored generator solutions. We provide customization options that enhance performance, improve efficiency, and seamlessly integrate with your operational needs.

In addition, We offer comprehensive Annual Maintenance Contracts (AMC) to ensure uninterrupted performance and extended equipment life. Our AMC services include preventive maintenance, regular inspections, quick response support, and expert servicing - minimizing downtime and maximizing reliability.

At **VOLTEX**, we are dedicated to delivering excellence through innovation, service, and customer satisfaction. Whether you need a standard generator or a fully customized power solution with ongoing support, **VOLTEX** is your trusted partner for complete power solutions.

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POWERED BY

Diesel Power



SUPERNOVA

LHP Series

20 kVA to 200 kVA

Genset Specifications:

Sr. No.	Description	SP 20	SP 30	SP 45	SP 60	SP 80	SP 100	SP 150	SP 200	
DG Set	kVA/kWe(Prime)	20(16)	30(24)	45(36)	60(48)	80(64)	100(80)	150(120)	200(160)	
	kVA/kWe(Stand by)	22(17.6)	33(26.4)	49.5(39.8)	66(52.8)	88(70.4)	110(88)	165(132)	220(176)	
	Frequency(Speed)	50Hz/1500 RPM								
	Voltage/No. of Phase	415 Volts/3 phase								
	Power Factor	0.8								
	Rated Current(Amps) at 415V 100% load.	27.8	41.7	62.5	83.4	111.2	139	208.5	278	
	Fuel Tank Capacity(ltrs)	100	100	100	130	240	240	360	360	
	Shipping Dimensions(LxWxH) in mm	2100X980x1300			2270x1110x1840		2900x1190x1940		3900x1190x1940	
Diesel Engine	Engine make	Perkins								
	Engine Model	404D 22G	1103A-33TG	1103A-33TG1	1103A-33TG2	1104A-44TG2	1104C-E44TAG2	1106A-70TAG2	1106A-70TAG4	
	kWm Gross	18.7	28.2	42.2	55	73.4	93.6	139.5	183.6	
	No. of Cylinder	4	3	3	3	4	4	6	6	
	Type of Fuel	High Speed Diesel(HSD)								
	Cylinder Arrangement	inline								
	Type of cooling	Radiator cooled(Coolant)								
	Bore x Stroke (mm)	180 x100	105x127	105x127	105x127	105x127	105x127	105x135	105x135	
	Compression Ratio	23.3:1	19.25:1	17.25:1	17.25:1	17.25:1	17.25:1	18.2:1	18.2:1	
	Displacement(ltrs)	2.216	3.3	3.3	3.3	4.4	4.4	7.01	7.01	
	Governor	Mechanical							Electronic	Electronic
	Aspiration	Naturally Aspirated	Naturally Aspirated	Turbocharged	Turbocharged	Turbocharged	Turbocharged, air-to-air charge cooled	Turbocharged, air-to-air charge cooled	Turbocharged, air-to-air charge cooled	
	Oil sump Capacity(ltrs)	10.6	8.6	8.3	8.3	8	8	18	18	
	Coolant Capacity(ltrs)	6.5	12	12	12	11.7	17.2	20.5	20.5	
	Engine Starting System	12 V DC								
	No. of Battery	1								
	Battery Capacity	95Ah	100Ah					120Ah		
Alternator	Make	Stamford/Leroy Somer								
	Class of Insulation	Class H								
	Enclosure	IP23								
	Voltage Regulation	+/- 1% or better								
	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								
	Fuel consumption details(lt/hr)+5% tolerance applicable as per ISO. The recommended fuel is HSD									
	100% load	5.3	7.33	10.52	14.6	18.7	22.6	33.4	45.8	
	75% load	4	5.59	7.98	10.8	14	17.1	24.7	34.7	
	50% load	2.9	4.07	5.58	7.56	9.7	11.8	16.4	23.1	

*Design and specifications are under continuous improvement and are subject to change without notice.

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.

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 is available with this rating.

Warranty

All equipment has a warranty either against faulty workmanship or manufacturing defects for a period of 14 months from the date of dispatch or 12 months from the date of commissioning or 3000 running hours which ever occurs first. This warranty is back to back basis from our respective principals, engine and alternator manufacturers. This shall however exclude rubber parts and electrical gauges, faults due to mishandling, misuse or improper operation and maintenance



SUPERNOVA

MHP Series

400 kVA to 600kVA

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 600 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 2000 Series 6 Cylinder Inline Type Engine

- Prime power with 10% Overload
- Ambient capability upto -50°C
- High block load acceptance: 50 - 55%* of prime within ISO8528-5 class G2
- Low emission, high efficiency engine
- 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% or better
- 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

Control Panel :

- Microprocessors based AMF controller (DSE7320 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 Average noise level of 85dBA @ 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 Lub Oil / Coolant

Genset Specifications :

Sr. No.	Description	SP400		SP500		SP600	
TECHNICAL SPECIFICATIONS	Prime Power Rating kVA / kWe	400/320		500/400		600/480	
	Stand by Power Rating kVA/kWe	440/352		550/440		660/528	
	No. of Phases	3					
	Output Voltage and Frequency	415V/50Hz					
	Power Factor	0.8					
	Full load Current (A)	556		696		835	
	RPM	1500		1500		1500	
	Genset Dimension (LXWXH) in mm	4500x1800x2350		5550x2000x2570			
	Fuel tank capacity (in Liters)	500		780		780	
	Lifting arrangement	4 Points Top lifting					
	Genset Weight (in Kgs)	5250		6500		7000	
	Control Panel	Deepsea 7320 (Auto Start with Manual MCCB)					
ENGINE SPECIFICATIONS	Make	Perkins		Perkins		Perkins	
	Model	2206D-E13TAG3		2506D-E15TAG2		2806D-E18TAG1A	
	Gross Power (kWm)	367		453		540	
	Aspiration	Turbocharged and air to air charge cooled					
	No. of cylinders	6 Vertical inline					
	Cycle	4 Stroke					
	Bore (mm) x Stroke (mm)	130x157		137x171		145x183	
	Compression Ratio	15.8:1		16:1	17:1	14.5:1	18:1
	Combustion System	Direct Injection					
	Displacement (litre)	12.5		15.2		18.1	
	Fuel	HSD (Diesel conforming to specification BS2869 Class A2)					
	Performance class of generator set	G2 as per ISO8528- 5					
	Starting system	24 V Electrical					
	Total lubrication system capacity (litre)	40		62		71	
	Total coolant capacity (litre)	51.4		48		55.6	
	Exhaust Temperature (Deg. C)	540		471		518	
	Boost pressure ratio	3.5		3.73		3.5	
	Fuel Consumption(Engine) L/hr (+5% tolerance applicable as per ISO)						
	100%	90		106		129.6	
75%	72		82		101.8		
50%	50		58		69.6		
ALTERNATOR SPECIFICATIONS	Make	Stamford	Leroy Somer	Stamford	Leroy Somer	Stamford	Leroy Somer
	Alternator Model	HCI444F	LSAP 47 A2	HCI544D	LSAP 47 C	HCI544E	LSAP 47 E
	Bearing type	Single					
	Ingress Protection	IP23					
	Voltage Regulation (Max.)	+/- 1% or better					
	Class of Insulation	Class H with temperature rise limited to Class H					
	Winding Pitch	2/3		2/3		2/3	
	AVR model	AS440	R180	AS440	R180	AS440	R180
	Maximum Unbalanced Load (Provided non of its phases exceeds the rated current)	25%		25%		25%	
	Control System	Self Excited					

*Design and specifications are under continuous improvement and are subject to change without notice.

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.

Warranty

All of the Generator Sets are covered under a warranty policy for a period of 14 months from the date of dispatch or 12 months from the date of commissioning or 5000 running hours, whichever occurs first. Warranty of the equipment is in line with manufacturers warranty terms & conditions.

SUPERNOVA

HHP Series

750KVA to 2500KVA



Established in 1985, Supernova Engineers Ltd. is a leading Diesel Electric Genset manufacturer. Supernova Gensets HHP Series is powered by Perkins Diesel engines ranging from 750 kVA to 2500 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.

Salient Features

- Market leading power density
- No deration in power output up to 50 Deg. C
- High block load capability due to split exhaust system
- Average loading of Engine is 80% as against industries standard up to 70-75%
- Commonality of component over the entire series of Engine
- Unit injection system with electronic governor to optimize fuel consumption
- Low Operating and maintenance cost
- Coolant change interval 3 Years / 6000hrs
- Designed to provide excellent service access for Easy of Maintenance
- Compact size for easier transportation and installation



AC Generator (Stamford/Leroy-Somer)

- Brushless, single bearing, self-excited, self-regulated type
- Enclosure IP23
- Voltage regulation (Max.) +/- 0.5 %
- Class of insulation – H class temperature rise limit – Class H
- Wave form Distortion: <4% at no-load condition
- Total Harmonic Factor: <2% at no-load condition
- Conforming to IS 13364 & IS/IEC 60034-1

Control Panel

- Microprocessors based AMF controller (DSE7320 or equivalent)
- Graphical LCD display with best in class monitoring and diagnostic functionality / Remote monitoring compatibility
- MCC/ACB of reputed make

Option Available:

- Voltage Options: 415V/HT-3.3/6.6/11 kv
- Standard Switchgear-ABB/Schneider, other makes can be offered on request
- Standard Controllers – Woodward/DIEF/DeepSea, other makes can be offered on request



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

Best in class warranty

Engine

- 26 months from the date of shipment or 24 months from the date of commissioning or 5000 running hours which ever occurs first

Alternator

- 16 months from the date of shipment or 12 months from the date of commissioning or 5000 running hours which ever occurs first

Types of D.G. Sets

- Open Type D.G.Sets
- Silent D.G. Sets
- Containerized D.G. Sets
- Cooling Systems: Radiator/Remote Radiator/Heat Exchanger

Genset Specifications:

Generator Model	SP 750	SP 800	SP 1010	SP 1125	SP1250	SP 1500
Rated kVA / Rated kWe(Prime)	750kVA/600kWe	800kVA/640kWe	1010kVA/808kWe	1125kVA/900kWe	1250kVA/1000kWe	1500kVA/1200kWe
Rated kVA / Rated kWe(Stand by)	825kVA/660kWe	900kVA/720kWe	1125kVA/900kWe	1250kVA /1000kWe	1375kVA/1100kWe	825kVA/660kWe
Engine Model	4006 23TAG2A	4006 23TAG3A	4008 TAG2A/4008 30TAG2	4008 30TAG3	4012 46TAG0A	4006 23TAG2A
No. of Cylinder & Arrangement	6 Inline	6 Inline	8 Inline	8 Inline	12VEE	12VEE
Governor	ELECTRONIC					
Fuel System	DIRECT INJECTION SYSTEM WITH UNIT INJECTORS					
Bore X Stroke (mm x mm)	160 x 190					
Compression Ratio	13.6:1		13:1		13.6:1	13:1
Starting System	24V DC ELECTRIC					
Lead Acid Type Battery	2 nos 180AH				4 Nos. 180 AH	
Fuel day Tank Capacity (Ltrs)	960	960	740	990	990	
Coolant Capacity incl.Radiator (Ltrs)	114		162		223	
Lube.Oil Capacity incl.Oil Filters (Ltrs)	120		153		158	
Lube.Oil Specification	API CI4 15W/40					
Bare D.G. Set Dimensions (LxWxH) in mm(without Silencer)	4000x1240x2250		4500x2234x2120		5400X 2200X 2650	
Overall D.G. Set Dimensions (LxWxH) in mm(without Silencer)	7000x2150x2500		7200x2250x2500	7200x2600x2801	9112 x 2600 x 3760	
Total Weight incl. (Approx.) Acoustic Enclosure (in kgs)	9270	9270	11000	11500	19000	19300

Generator Model	SP 1700	SP 1750	SP 1850	SP 2000	SP 2250
Rated kVA / Rated kWe(Prime)	1710kVA/1368kWe	1750kVA/1400kWe	1850kVA/1480kWe	2000kVA/1600kWe	2250kVA/1800kWe
Rated kVA / Rated kWe(Stand by)	1880kVA/1504kWe	1922kVA/1537kWe	2000kVA/1600kWe	2250kVA/1800kWe	2500kVA/2000kWe
Engine Model	4012 46TAG3A	4012 46TAG4A	4016 61TRG1	4016 61TRG2	4016 61TRG3
No. of Cylinder & Arrangement	12VEE		16VEE		
Governor	ELECTRONIC				
Fuel System	DIRECT INJECTION SYSTEM WITH UNIT INJECTORS				
Bore X Stroke (mm x mm)	160 x 190				
Compression Ratio	12.8:1	12.8:1	13:1	13:1	13:1
Starting System	24V DC ELECTRIC				
Lead Acid Type Battery	4 Nos. 180 AH				
Fuel day Tank Capacity (Ltrs)	990				
Coolant Capacity incl.Radiator (Ltrs)	233		550		
Lube.Oil Capacity incl.Oil Filters (Ltrs)	158		213		
Lube.Oil Specification	API CI4 15W/40				
Bare D.G. Set Dimensions (LxWxH) in mm(without Silencer)	5400X 2200X 2650		5800X 3000X 3400		
Overall D.G. Set Dimensions (LxWxH) in mm(without Silencer)	9112 x 2600 x 3760		10550 X 3300 X 4340		
Total Weight incl. (Approx.) Acoustic Enclosure (in kgs)		24200	26400	27460	29630

*CONTAINERISED DG SETS ARE AVAILABLE ON REQUEST in 20ft OR 40FT OPTIONS

* ALTERNATOR OPTION OF STAMFORD/LEROY SOMER AVAILABLE

*60Hz OPTION AVAILABLE ON REQUEST

CONTINUOUS DEVELOPMENTS IN THE PRODUCT ENTITLES US TO CHANGE TECHNICAL SPECIFICATIONS, DIMENSIONS, SCOPE OF WORK ETC.

Prime power

Unlimited hours usage with an average load factor of 80 percent of the published Prime power over each 24-hour period. A 10 percent overload is available for 1 hour in every 12 hours operation.

Standby power

Limited to 500 hours usage with an average load factor of 80 percent of the published Standby power rating over each 24-hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted.



AUTHORISED DEALER OF



Powering Progress. Empowering Congo.

At **VOLTEX**, we don't just supply power - we enable growth, stability, and opportunity across the **Democratic Republic of Congo**. From bustling cities to remote mining operations, our solutions are built to support the nation's evolving energy needs with reliability and efficiency.

Our Mission

To deliver dependable, innovative, and customized power solutions that drive productivity and sustainable development across the **Democratic Republic of Congo**. We are committed to ensuring uninterrupted energy through quality spare products, expert service, and long-term partnerships.

Our Vision

To become the most trusted and recognized power solutions provider in Central Africa, leading the way in advanced generator technologies, customer-centric services, and energy reliability.

Our Commitment

- Reliable Power You Can Trust
- Tailored Solutions for Every Need
- Rapid Support & Expert Service
- Long-Term Performance & Efficiency

With **VOLTEX** as your partner, you gain more than a generator - you gain peace of mind, operational continuity, and a team dedicated to your success.

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