



Volta Generators FZE

COMPANY PROFILE



Always On, Always Secure



Welcome Message



Volta Generators

Practical approaches to power solutions.

Volta Generators FZC, manufacturer of the "VOLTA" range of diesel generating sets and power systems within the range 9KVA to 2,250 KVA has an international reputation for quality.

We produce sets based upon a wide range of world class engines like PERKINS / LISTERPETTER / CUMMINS and alternators like LEROYSOMER / STAMFORD / MECCALTE. Volta Generators FZC has highly experienced and qualified personnel with a wealth of background and practical knowledge in the power generation industry world-wide.



Vision & **Mission**

Vision

Volta Generators is a distinguished manufacturer specializing in the production of high-quality diesel generating sets and comprehensive power systems. Our esteemed "VOLTA" range encompasses a wide spectrum of power solutions, with capacities ranging from 4.5KVA to 4125 KVA. Renowned for our commitment to excellence, Volta Generators has established an international reputation for delivering superior power generation products that meet the diverse needs of our clients across various sectors.

Mission

At Volta Generators, our mission is to provide reliable and efficient power solutions that empower businesses and communities worldwide. We are dedicated to innovation, quality, and customer satisfaction, ensuring that our products are at the forefront of technology and performance.

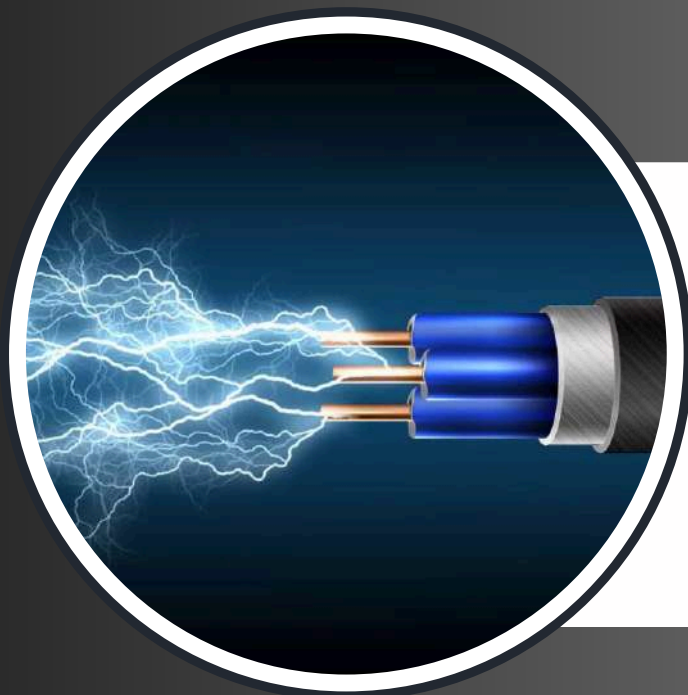




About Volta Company

Volta Generators is a leading manufacturer renowned for our exceptional range of diesel generating sets and power systems. With an extensive portfolio that spans from 4.5 KVA to 4125 KVA, we have established an international reputation for delivering high-quality, reliable power solutions tailored to meet diverse energy needs.

Our commitment to excellence is reflected in our innovative designs and rigorous quality control processes, ensuring that every product meets the highest industry standards. At Volta Generators, we understand the critical role that dependable power plays in various sectors including industrial, commercial, and residential applications.





PRODUCTION

In the production process of volta generators, efficiency and precision are essential to meet customer demands and ensure product quality. The production line is carefully planned and organized to optimize workflow and minimize waste.

Skilled technicians and engineers work collaboratively to assemble components and construct generators according to design specifications. Quality control checks are conducted at each stage of production to identify any defects or deviations from standards, ensuring that only reliable and high-performance generators are released to the market.

Continuous improvement initiatives are implemented to streamline processes, reduce costs, and enhance overall production efficiency. By focusing on excellence in production practices, generator companies can deliver top-notch products that meet industry standards and customer expectations.



QUALITY CONTROL

In Volta Generators a robust quality control system is paramount to ensure the reliability and performance of the products. This system encompasses stringent testing procedures at various stages of production to identify any defects or malfunctions early on. Quality inspections are conducted on components, assemblies, and finished generators to guarantee adherence to specifications and standards.

Documented processes for calibration, maintenance, and monitoring of equipment are implemented to uphold consistency and accuracy in product quality. Regular audits and evaluations are carried out to assess the effectiveness of the quality control measures and identify areas for improvement. Continuous training and development programs are provided to employees to enhance their skills and knowledge in maintaining high-quality standards.





Internationally-Acclaimed Providers

Volta Generators offers standard and customized diesel-powered generating sets suitable for standby, emergency power, prime power or continuous applications.



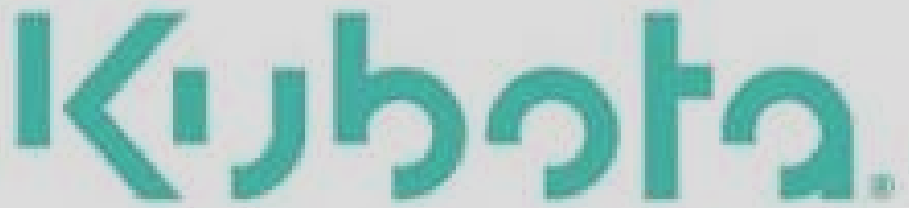
Diesel Generating Sets

We strive to satisfy all your power needs while ensuring:

- * Customized solutions where needed
- * Trustworthy performance
- * Reliability and durability
- * Consistent delivery terms

Our diesel-powered generating sets are available in sizes ranging from 4.5 to 4250 kVA







Baudouin	KVA 50Hz	KVA 60Hz	Alternator Leroy-Somer
4M06G20/5	18	23	TAL040F
4M06G25/5	23	29	TAL040F
4M06G35/5	32	38	TAL042C
4M06G44/5	40	47	TAL042F
4M06G50/5	45		TAL042F
4M06G55/5	50	63	TAL042H
4M10G70/5	65	75	TAL042H
4M10G88/5	80	94	TAL044D
4M10G110/5	100	112	TAL044D
6M11G150/5	135	150	TAL044H
6M11G165/5	150	181	TAL044J
6M16G220/5	200	225	TAL044M
6M16G250/5	220	250	TAL046D
6M16G275/5	250	284	TAL046D
6M16G350/5	320		TAL046F
6M21G400/5	350	390	TAL046H
6M21G440/5	400		TAL0473A
6M21G500/5	450		TAL0473C
6M21G550/5	500	500	TAL0473F
6M33G715/5	650	600	TAL049C
6M33G825/5	750	750	TAL049C
12M26G1100/5	1020	1000	TAL049E
12M33G1300/5	1220	1250	TAL049E





VOLTA
Generators



VOLVO



LEROY-SOMER

#	Prime Power (KVA) @ 50 Hz	Model	RPM
1	80	TAD530GE	1500/1800
2	100	TAD531GE	1500/1800
3	150	TAD731GE	1500/1800
4	250	TAD841GE	1500/1800
5	300	TAD1341GE	1500/1800
6	320	TAD843GE	1500/1800
	350	TAD1342GE	1500/1800
	400	TAD1344GE	1500/1800
9	500	TAD1641GE	1500/1800
10	590	TAD1642GE	1500/1800
11	650	TAD1644GE	1500/1800
12	700	TAD1645GE	1500/1800



Model	Engine	Alternator	Rating		Rating	
			Prime	SBY	Prime	SBY
		Leroy somer	kVA	Kw		
AQT-10	403A-11G1	TAL-040-C	9	10	7	8
AQT-15	403A-15G1	TAL-040-C	13	15	10.4	11.4
AQT-22	404D-22G1	TAL-040-F	20	22	16	18
AQT-33	1103A-33G	TAL-042-C	30	33	24	26
AQT-50	1103-33TG1	TAL-042-F	45	50	36	40
AQT-66	1103A-33TG2	TAL-042-H	60	66	48	53
AQT-88	1104A-44TAG2	TAL-044-C	80	88	64	70.4
AQT-110	1104C-44TAG2	TAL-044-D	100	110	80	88
AQT-150	1106A-70TAG1	TAL-044-H	135	150	108	120
AQT-165	1106A-70TAG2	TAL-044-J	150	165	120	132
AQT-200	1106A-70TAG3	TAL-046-A	180	200	144	160
AQT-220	1106A-70TAG4	TAL-046-B	200	220	160	176
AQT-250	1506A-E88TAG2 / 1206A-E70TTAG2	TAL-046-C	230	250	184	200
AQT-275	1506A-E88TAG3 / 1206A-E70TTAG3	TAL-046-D	250	275	200	220
AQT-330	1506A-E88TAG5	TAL-046-F	300	330	240	264
AQT-400	2206A-E13TAG2	TAL-046-H	350	400	280	320
AQT-450	2206A-E13TAG3	TAL-047-A	400	450	320	360
AQT-500	2506A-E15TAG1 / 2506D-E15TAG1	TAL-047-B	455	500	364	400
AQT-550	2506A-E15TAG2	TAL-047-C	500	550	400	440
AQT-650	2806A-E18TAG3	TAL-047-E	600	650	480	520
AQT-660	2806C-E18TAG1A					
AQT-700	2806A-E18TAG2					
AQT-825	4006-23TAG2A					
AQT-850	2806A-E18TTAG5					
AQT-900	4006-23TAG3A					
AQT-1000	4008-TAG1					
AQT-1100	4008-TAG2					
AQT-1385	4012-46TWG2A					
AQT-1650	4012-46TAG2A					
AQT-1856	4012-46TAG3A					
AQT-2000	4016-TAG1A					
AQT-2250	4016-TAG2A					
AQT-2500	4016-61TRG3					





Engine model	50Hz	Engine	Engine Origin
Type	KVA Prime/Standby	CUMMINS	
C-25	25/ 27.5	X2.5G2	INDIA
C-35	35 / 38	X3.3G1	INDIA
C-50	50/ 55	4BTAA3.3G15	INDIA
C-56	56/ 61.6	4BTA3.5G2	CHINA
C-60	60 / 66	4BTAA3.3G14	INDIA
C-65	65 / 71.5	4BTA3.9G2/1	CHINA
C-80	80 / 90	4BTA3.9G11	CHINA
C-100	100/ 110	6BTA5.9G5	INDIA
C-100	100/ 110	GBT5.9G1	CHINA
C-135	135/ 150	6BTAA5.9G2	CHINA
C-136	136/ 150	6BTAA5.9G6	INDIA
C-150	150/ 165	6BTAA5.9G12	CHINA
C-155	155/ 170	6BTAA5.9G7	INDIA
C-180	180 / 200	QSB7G4	INDIA
C-180	180 200	6CTA8.3G1	CHINA
C-200	200 / 220	QSB7G5	INDIA
C-200	200 / 220	6CTAA8.3G2	CHINA
C-250	250 / 275	QSL9G3	
C-250	250 / 275	6LTAA8.9G2	CHINA
C.270	272/ 300	6LTAA5.5G3	CHINA
C-300	317 / 350	6LTAA9.5G1	CHINA
C-300	300 330	QSL9G5	UK
C-360	370 / 409	QSG12-G3	CHINA
C-410	409 / 450	QSZ13G7	CHINA
C-410	416 1455	QSG12-G4	CHINA
C-455	455 / 500	QSZ13G5	CHINA
C-500	500 / 550	KTA19G4	INDIA
C-500	500 / 550	QSX15G8	USA
C-500	500 / 550	QSZ13G3	CHINA
C-640	636 / 700	VTA2BG5	INDIA
C-650	650 / 715	QSK19G4	CHINA
C-750	750 / 825	VTA2BG6	INDIA
C-750	750/ 810	QSK23G2	INDIA
C-810	810 / 900	QSK23G3	INDIA
C-910	910/ 1000	KTA38G3	INDIA
C-910	910 1 1000	QST30G3	USA
C-1000	1000 / 1100	OST30G4	USA
C-1000	1000 / 1100	KTA38G5	INDIA
C-1250	1275 11400	KTA50G3	INDIA
C-1400	1400 / 1675	KTA50G8	INDIA
C-1500	1500 / 1675	KTA50G58	INDIA



VOLTA GENERATORS FZC
4P-04, P.B.No.51564 Hamriyah Free
Zone
Sharjah, United Arab Emirates



VGB-18 TA DIESEL GENERATOR



GENERATOR OUTPUT

TEMPERATURE	PRIME	STANDBY
50 C	19KVA	19.8KVA
50 C	14.4KW	15.84KW

Frequency: 50Hz
 Voltage: 400 V
 Engine Speed: 1500 RPM
 Fuel Tank Run Time: 12hrs @ 75% load

BAUDOUIIN MOTEURS

FEATURES

Low in fuel consumption
 Low exhaust emissions
DURABILITY AND LOW NOIS
 70 dB(A) @ 7M + 3dB(A)



ELECTRICAL SYSTEM

12V negative earthed starter, battery charging alternator.

FILTERING SYSTEM

Heavy Duty Air Cleaner

LERROY-SOMER ALTERNATOR

APPLICATIONS

The TAL alternator range is designed to meet the needs of general applications such as prime power and stand-by.

STANDARD OF COMPLIANCE

The TAL range complies with international standards and regulations: IEC 60034 and derivative.

The range is designed, manufactured and marketed in an ISO 9001 and 14001 environment.

TOP OF THE RANGE ELECTRICAL PERFORMANCE :

Class H insulation
 Standard G(12 option) wire re-connectable winding, and 2/3 pitch efficiency and motor starting capacity



DEEP SEA CONTROLLER DSE6120 MKI

The DSE4520 module monitors the engine, indicating the operational status and fault conditions.

automatically shutting down the engine and giving a true first up fault condition of an engine failure by the text LCD display.



Features

Text based LCD display
 True RMS Voltage
 Current and Power monitoring
 USB Communications
 Engine parameter monitoring.
 Fully configurable inputs for use as alarms or a range of different functions.
 Data Logging

GENERATOR SPECIFICATIONS

Engine

Manufacturer Baudouin Moteurs
 Engine Model 4M06G2D0/S
 Engine Speed 1500 RPM
 Type In-Line, 4 cycle
 Number of Cylinder 4
 Bore x Stroke 89*92 mm
 Displacement 2.3 L
 Compression Ratio 17.5 : 1
 Fuel System Mechanical Pump
 Governor Electronic
 Fuel Consumption at 75% load 5 L/h (prime)
 Flywheel SAE 4 / 7.5

Alternator

Manufacturer LEROY-SOMER
 Model TAL040F
 Control System Shunt Excitation
 Voltage Regulation +/- 1%
 Insulation Class Class H
 Protection IP23
 Rated Power Factor 0.8
 Stator Winding Double Layer Lap
 Winding Pitch 2/3
 Winding Leads 6 (12 option)
 Total Harmonic Distortion THD No Load < 2%
 Total Harmonic Distortion In linear load THD < 5%
 Maximum Overspeed 2250 R.P.M

Overall Specification

Dimensions (L x W x H) 2250 x 964 x 1520 mm
 Wet Weight 900 kg
 Sound Level: 78 dB(A) @ 7m + 3 dBA
 Ambient Temperature 50 °C
 Altitude 0 m
 Relative Humidity Below 90%
 Coolant capacity 8.6 L
 Fuel Tank Capacity 157 litres
 Total oil capacity (including filters) 9.5 L

CONDITIONS AND DEFINITIONS

PRIME POWER RATING

Prime Power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's PRP power rating during any 24 hour period. An overload capability of 10% is available, however, this is limited to 1 hour within every 12 hour period.

STANDBY POWER RATING

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine's ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

STANDARD REFERRED

ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of 45%.

Volta solar lighting Towers



Model	Urban - GP65k
Lumen Output	65,000
Mast Height	7.5 metres
Electrical Type	Electric winch /Cable
Lights	4 x 100w LED Modules
Coverage	120m x 120m @ 5 lux
Light Bar Rotation	355°
Light Bar Tilt (Manual)	10° to 80°
Trailer Type	Single Axle
Tyre and Rim Size	14'
Stabiliser Supports	4 x Manual
Mudguard / Wheel Chock	Included
Security	Wheel lock/ hitch lock, wheel clamps

OPERATIONAL DATA

Wind Rating	80km/h
Working Temperature	0° to 50° (-25° with optional kit)

BATTERY

Battery	14.4kw.H
Runtime	40 Hours
Batteries	6 x 200 A.H. (Gel Battery)
Solar Tilt	Variable
Solar Panels	3 x 500 W

UNIT

Dimensions (Stowed)	3600 x 2240 x 2900 (
Dimensions (Deployed)	
Weight	

LxWxH)
3600 x 4370 x 2700 (LxWxH)
900kg



Diesel Generators (Open Type) - VP Series

Diesel Generators (Open Type) - VL Series

Diesel Generators (Silent Type) - VP Series

Diesel Generators (Silent Type) - VL Series

Control Panels

Portable Lighting Towers

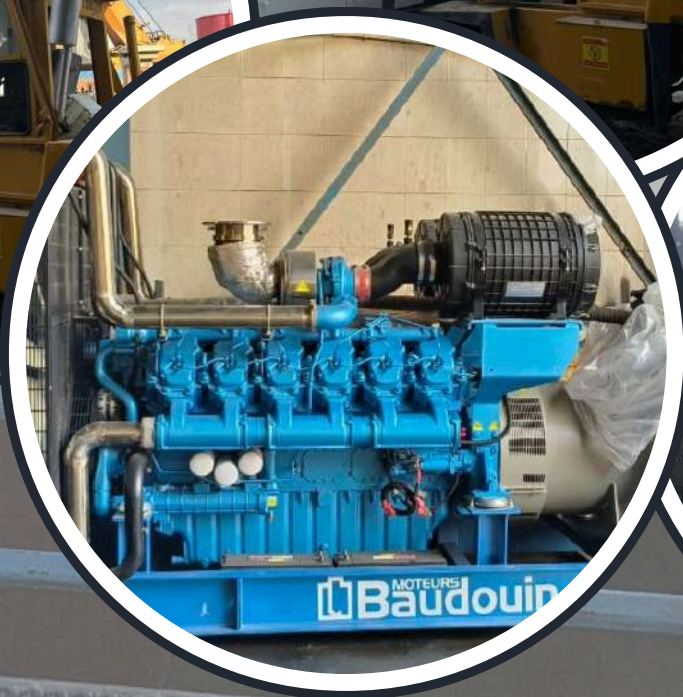
Acoustic Enclosure

Soundproof ISO Container



VOLTA

Generators





VOLTA TOWER LIGHT

9 KVA -50HZ

11KVA-60 HZ

ENGINE AND TOWER / TECHNICAL DATA

Engine Make	Kubota Japan			
Engine Model	D1105			
Type	4-cycle Diesel engine			
Number of Cylinders	3			
Cylinder Arrangement	Vertical			
Bore and Stroke	mm (in) 78.0 x 78.4 (3.07 x 3.09)			
Displacement	L (cu.in) 1.123 (68.53)			
Aspiration	Naturally Aspirated			
Fuel System	In-line Pump			
Combustion System	Indirect injection			
Rotation (Viewed from flywheel side)	Counter clockwise			
Cooling System	water cooled			
Frequency And Engine Speed	50HZ 1500RPM		60HZ 1800RPM	
	Prime	Standby	Prime	Standby
		kW (HP)	kW (HP)	kW (HP)
Gross Engine Power KW (hp)	8.4 (11.3)	9.5 (12.7)	10.1 (13.5)	11.5(15.4)
Fuel Consumption	Kg/kW-hr			
@50% Load L/hr	1.04	-	1.25	-
@75% Load L/hr	1.56	-	1.87	-
@100% Load L/hr	2.07	-	2.49	-
Fuel Tank Capacity : Liters	114	114	114	114
Fuel Tank Capacity : hrs	86.19	-	71.68	-
Telescopic Tower	Galvanized			
Hand Winch	3000 lb with two directional break			



LED FLOOD LIGHT

Make	Pulsrite
Power (W)	350
Beam angle	45o
LED chip	Citizen
Luminous Flux (Lm)	49000
Life (Hours)	5000
IP	67

STANDARD SPECIFICATIONS

- Engine
Kubota four stroke heavy duty high performance industrial type diesel engine
- ENGINE FILTRATION SYSTEM
* Cartridge type dry air filters
* Cartridge type fuel filters
* Full flow Lube oil filters
- EXHAUST SYSTEM

Silencer noise reduction	20 (dBA)
Max Allowable back pressure	10.2 (kPa)

CONTROL PANEL

Make	Deep Sea
Model	DSE4510

DSE4510 is an Auto Start Control Module for single genset applications. It includes an LCD display which clearly shows the status of the engine all time. This module can either be programmed using the front panel configuration suits PC software metering and alarm indications.

- *Generator frequency
- *Under speed, Over speed
- *Generator voltage
- *Generator current
- * Engine oil pressure
- *Engine coolant temprature
- *Fuel level (warning or shut down)
- *Hours run counter
- *Battery voltage
- * Fail to start stop
- *Emergency stop

TOWER

Tower Rotation	359o
Tower Lighting	4x1000W Metal Halide or 4*350W LED
Tower Rising Method	Manual
Max Tower Hight m	7.7
Spider Legs	3 Jackstands and one Jack wheel

DIMENSIONS

Tires	Width	Height	Length
14 inches	1150mm	2520mm	1600mm-2500mm

Output Rating	Prime	Standby
380-415 V, 3ph, 50Hz 1500 rpm	KVA	

ALTERNATOR DATA

Make	LINZ , Italy	
Model	ALUMEN-X LF	
Rated power at 50Hz	KVA	8
Rated power at 60Hz	KVA	10
No. Of Bearings	single bearing	
Insulation Class	H	
Regulation Type	capacitor	
Max Over Speed	rpm	2250
Voltage Regulation	±5%	
	brushless	
	self excited	
	110% of rated power	
	m3/min	5.1 @50Hz 6.1 @60Hz
	EN60034-1 ISO8528-3 EN55011	



50 HZ ,4.5KVA 60 HZ,6KVA

STANDARD SPECIFICATIONS

1. Engine
Kubota four stroke heavy duty high performance industrial type diesel engine

2.ENGINE FILTRATION SYSTEM

- * Cartridge type dry air filters
- * Cartridge type fuel filters
- * Full flow Lube oil filters

4. EXHAUST SYSTEM

Silencer noise reduction	20 (dBA)
Max Allowable back pressure	10.2 (kPa)

CONTROL PANEL

Make	Deep Sea
Model	DSE4510

DSE4510 is an Auto Start Control Module for single genset applications. It includes an LCD display which clearly shows the status of the engine all time. This module can either be programmed using the front panel configuration suits PC software metering and alarm indications.

- * Generator frequency
- * Under speed, Over speed
- * Generator voltage
- * Generator current
- * Engine oil pressure
- * Engine coolant temperature
- * Fuel level (warning or shut down)
- * Hours run counter
- * Battery voltage
- * Fail to start stop
- * Emergency stop
- * Failed to reach loading voltage/ frequency
- * Charge fail
- * Loss of magnetic pick-up signal
- * Low DC voltage
- * CAN diagnostics and CAN fail/ error

ENGINE AND TOWER / TECHNICAL DATA

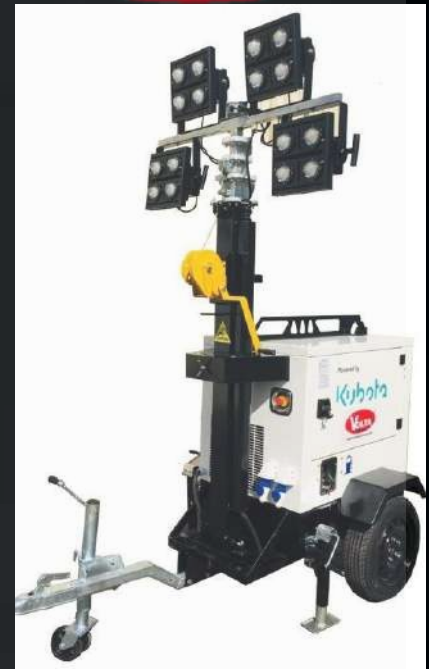
Engine Make	Kubota Japan			
Engine Model	Z482			
Type	4-cycle Diesel engine			
Number of Cylinders	2			
Cylinder Arrangement	Vertical			
Bore and Stroke	67.0 x 68.0			
Displacement (L)	0.479			
Aspiration	Naturally Aspirated			
Fuel System	In-line Pump			
Combustion System	Indirect injection			
Rotation (Viewed from flywheel side)	Counter clockwise			
Cooling System	water cooled			
Frequency And Engine Speed	50HZ 1500RPM		60HZ 1800RPM	
	Prime	Standby	Prime	Standby
	kW (HP)	kW (HP)	kW (HP)	kW (HP)
Net continuous Power KW (hp)	3.4 (4.6)	3.6 (4.8)	4.1 (13.5)	4.4(5.9)
Fuel Consumption	Kg/kw-hr			
@50% Load L/hr	0.46	-	0.53	-
@75% Load L/hr	0.68	-	0.80	-
@100% Load L/hr	0.91	-	1.07	-
Fuel Tank Capacity : Liters	114	114	114	114
Fuel Tank Capacity : hrs	197.23	-	167.65	-
Telescopic Tower	Galvanized			
Hand Winch	3000 lb with two directional break			

TOWER

Tower Rotation	359o
Tower Lighting	4x300W LED Flood lights
Tower Rising Method	Manual
Max Tower Hight m	7.7
Spider Legs	3 Jack stands and one Jack wheel

DIMENSIONS

Tires	Width	Height	Length	
14 inches	1150mm	2520mm	1600mm-2500mm	
			Output Rating	
			Prime	Standby
			380-415 V, 3ph, 50Hz, 1500 rpm	KVA 5 5.5
			380-415 V, 3ph , 60Hz, 1800 rpm	KVA 6 6.6



ALTERNATOR DATA

Make	LINZ , Italy	
Model	ALUMEN MD	
Rated power at 50Hz	KVA	5
Rated power at 60Hz	KVA	6
No. Of Bearings	single bearing	
Insulation Class	H	
Regulation Type	capacitor	
Max Over Speed	rpm	2250
Voltage Regulation	±5%	
Execution	brushless	
Control System	self excited	
Overload	110% of rated power	
Air Flow Requiremnt Standard	m3/min	3.1 @50Hz 3.6 @60Hz
		EN60034-1 ISO8528-3 EN55011

VOLTA TOWER LIGHT
4.5 KVA -50HZ
6 KVA-60 HZ





Volta Generators is a leading manufacturer renowned for our exceptional range of diesel generating sets and power systems. With an extensive portfolio that spans from 4.5KVA to 4125 KVA, we have established an international reputation for delivering high-quality, reliable power solutions tailored to meet diverse energy needs.



شركة

للمعدات الكهربائية

Kubota

mecc alte





VOLTA
Generators

25 years experience of serving power markets world-wide, reputation for innovative product design, customer service, quality and reliability is renowned.

VOLTA GENERATORS FZC

VOLTA



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