

DESIGN SPECIFICATIONS

 \High quality,reliable,long life and complete power unit.
 \compact design.
 \Easy start and maintenance possibility.
 \Every generating set is subject to a comprehensive test programme which includes full load testing and checking and proving of all control and safety shut down functions testing.
 \Fully engineered with a wide range of options and accessories:Electrical,mechanical, soundproof canopy and mobile units

VW-460T6 powered by:

TAD1345GE-B

Diesel Genset Features		P.F=0.8 3Phase	
Generating Set Performance		60	Hz
Service		Prime Power	Standby Power
Rated output	kVA	460	506
Active power output %	kW	368	405
Rated Speed	r.p.m	18	00
Standard Voltage	V	380/	220
Voltage available	V	480/277-460/265 - 440/254-416	/240-240/139-220/127-208/120

Perforemance data refer to Standard Reference Conditions of ISO 8528:+25°C,100m ALT,relative humidity 30%

Power reduction acc.to DIN ISO 3046 Standard values: Above 100m ALT approx.1% per 100m. Above 25°C (77°F) approx.4% per 10°C (50°F).

*Considering cos phi=0.8

Prime Mover Performance		1800 r.p.m	
SERVICE		Prime Power	Standby Power
Rated output(with fan)	KW	392	431.2
Manufacturer		VO	LVO
Model		Di	rect
4 stroke Diesel Engine - Injection type		TAD13	45GE-B
Aspiration type		turboo	charged
Cylinders,number and arrangement		6	ì-L
Bore×Stroke	mm	131	X158
Total Displacement	L	12	2.78
Cooling system		W	ater
Emission Certification		Ν	I/A
Compression ratio		18	L1:1
Specific fuel consumption(P.R.P)	L/h	93	3.8
ubricating oil consumption	L/h	0	.05
Coolant capacity (engine only)	L		20
Speed governor	Туре	EM	S 2.2

()P.R.P. Prime Power - ISO 8528:PRIME POWER is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2)Max Standby power -ISO 3046 Fuel Stop power: Power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year ,90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Synchronous Generator		1800 r.p.m
Manufacturer		Guericke
Model		GRK368KW
Rated output	KW	368
Poles	num	4
Winding Conections (standard)		Star-serie
Insulation	class	Н
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Votage Regulaors		A.V.R (SX460)
Steady voltage precision		within±1.5% from no load to full loading with cosΦ=0.8-1.0
%Alternator used by GTL Gensets meet the requirements of following Standard:BS5000,VDE0530,NEMA MG	1-32,IEC34,CA C22.2-100,AS1359	

nerationg Set Installation Data		1800 r.p.m	
EXHAUST SYSTEM			
Exhaust Gas Temperature after turbine at:	ĉ	440	
Exhaust Gas Temperature alter turbine alt	°F	824	
Exhaust gas flow	L/s	1282.0	
Maximum allowed back pressure	Кра	9	
AIR REQUIREMENT			
Air requirement for combustion of 4000/ load/refed an ord	L/s	550.0	
Air requirement for combustion at 100% load/rated speed	ft3/min(CFM)	1165.0	
ELECTRIC STARTING SYSTEM			
Starter motor	kw	7	
Starter motor battery capacity(max)	Ah/A	80	
Auxiliary voltage	V	24	
LUBRICATION SYSTEM			
Lubricating oil consumption of diesel consumption (average)	L/h	0.05	
Standard Control Panel -EPmaster EPM6			

Faceplate Controller Internal Structure Protection.distribution.and automatic control panel, which starts the generator set when it detects a mains failure and stops it when the nains is restored with the control unit EPM6. It also starts and stops the group manually via a pushbutton or remote start-up by contact. **EP**MASTER It has the following: Emergency stop push button GCB ② Protections: 0 8 I I I Circuit breaker (preheating resist.) 2P (16 A) Protection fuses for control module GCB Emergency Stop Button Optional: ATS ③ Voltage&speed trimmers ④ Battery charger (5) DC switch ⑥ Working Lamp switch ⑦ Distribution:Direct output of the circuit breaker ⑧ EPM4&EPM6+(cloud monitoring communication 4G)control and protection centre

EPmaster EPM6

It has a digital LCD screen, which provides easy reading of the information regarding the Engine, Alterator, Mains and Charging. The controller meets all requirements for Auto Mains Failure (AMF) applications including remote communication and internet control, user configuration and complete genset monitoring and protection.

READINGS that can be made:	•Protection of the engine and alternator, with the ALARMS activated:	•Other characteristics:
		Event log, real-time clock, scheduled start & stop generator (can be set as start genset once a day/week/month whether with load or not). Maximum 99 event logs can be memorized.
Alterator : voltages between phases and between phases and neutral/frequency/phase sequence		With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.
Mains: frequency/voltages between phases and between phases and neutr al (L1-N, L2-N,L3-N)/voltages between phases and (L1-L2, L2-L3, L1-L3)/phase sequence	Mains: over and under voltage and loss of phase	Equipped with CANBUS port and can communicate with J1939 enginet. Not only can monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, but also control starting up, shutdown, raising speed and speed droop via CANBUS port
Load: Current(Ia,Ib,Ic)and each phase and total active power(kw)/reactive power(kvar)/apparent power(kva)/power factor/accumulated generator pow er(kwh,kvah,kvah)/output percentage with load (%)	•Control of the set:	RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.
	ed and when it is restored, respectively. It can also operate MANUALLY and A	Parameter setting: parameters can be modified and stored in internal FLASH memor y and cannot be lost even in case of power outage; most of them can be adjusted using front panel of the controller and also can be modified using PC via USB or RS485 port.

tem	Standard	Option
	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chalwin type
	Standard oil filter	Intake air heater
	Low coolant level sensor	Oil temperature sensor
	Exhaust gases compensator	Diesel-powered heater
anina	24V Electrical system	Engine water heater
ngine	Radiator with bloweing fan	
	Electronic governor	
	Sender WT	
	Sender OP	
	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP55/IP55
ternator	Insulation H class	Space heater/anti-condensation heater
lemalor		Environment protection
		Temperature detectors
		Parallel operation
	Battery isolator switch	Distribution board with sockets kit and power busbar
	3 poles circuit breaker	4 poles circuit breaker
ectrical system	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grouding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
cessories	Oil extraction pump	Trailer
	Tool kit for maintenance	Residential silencer
	Voltage/Speed potentiometer	Electric engine fuel heater
	No Expansion tank	Expansion tank for coolant water

enerating Set transport data

Dimensions(Open Skid Type) With Standard Fuel Tank



√The complete gen-set is mounted on whole on a heavy-duty fabricated,steel base frame. \checkmark Antivibration pads are fixed between the engine/ alternator feet and the base frame ;

 $\sqrt{}$ Base frame design incorporates an integral fuel tank.

 $\sqrt{}$ The generating set can be lifted or carefully pushed / pulled by the base frame;

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Dimensions(Silent Type) With Standard Fuel Tank



 ${\scriptstyle \sqrt{}}{\rm All}$ canopy parts are designed with modular principles.

 $\sqrt{}$ Without welding assembly $\sqrt{}$ All metal canopy parts are painted by electrostatic polyester powder paint. √Doors on each side

√Thermally insulated engine exhaust system. √Emergency stop push button outside of canopy. √Easy maintenance and operation.



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Over All Size		
Length	mm	3310
Width	mm	1390
Height	mm	1880
Shipping Volume	m3	8.649692
Dry Weight	Kg	3507
Fuel Tank Capacity	L	600

Over All Size

Length	mm	4500
Width	mm	1800
Height	mm	2340
Obligging Malagers	2	10.05
Snipping volume	m3	18.95
Shipping Volume Dry Weight	Kg	6178

