



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 and testing and checking and proving of all control and safety shut down functions testing.

VW-400T6 powered by: TAD1342GE-B

 $\sqrt{\text{Fully}}$ engineered with a wide range of options and accessories:Electrical,mechanical,soundproof canopy and mobile units

Diesel Genset Featur

Diesel Genset Features		P.F=0.8 3Phase		
Service		P.R.P	Standby	
Rated output	kVA	400.0	440.0	
Active power output %	kW	320	352	
Rated Speed	r.p.m	1800		
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℃(77%) approx.4% per 10℃(50%). %Considering cos phi=0.8

Prime Mover Performance	1800 r.p.m	00 r.p.m		
SERVICE		P.R.P	Standby	
Rated output	KW	363	395	
Manufacturer		VOLVO PENTA		
Model		TAD1342GE-B		
4 stroke Diesel Engine - Injection type		Direct		
Aspiration type		Turbocharge		
Cylinders,number and arrangement		6		
Bore×Stroke	mm	131X158		
Total Displacement	L	12.78		
Cooling system		Water		
Compression ratio		18.5:1		
Specific fuel consumption(P.R.P)	L/H	88.12		
Total coolant capacity	L	44		
Speed governor	Туре	Electronic Unit Injectors, EMS2		

DP.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 ntervals. 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.

②Max 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 20h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

2001 per year. No ovendad available. Appleable in case of failure of the main in areas	or reliable cloourour ne	awona.		
Synchronous Generator				
Manufacturer			Guericke	
Model		GRK 320G4		
Rated output		320		
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 co	sΦ=0 8-1 0
XAlternator used by GTL Gensets meet the requirements of following Standard:BS500				0.0 1.0
Generationg Set Installation Data	0, VDE0000, NEWSY WK	1800 r.p.n		
EXHAUST SYSTEM		1800 1.p.n		
	°C		422	
Exhaust Gas Temperature at full load	۳	432 809.6		
Exhaust gas flow	L/s	1083.3		
Maximum allowed back pressure	Кра	9		
AIR REQUIREMENT				
Air requirement for combustion at 100% load/rated speed	L/s ft3/min(CFM)	478.3 1012.9		
ELECTRIC STARTING SYSTEM				
Starting motor output	kw	7		
Standard Battery Charging System	A	80		
Auxiliary voltage	V	24		
LUBRICATION SYSTEM	•	•		
Lube oil system including sump,filters,etc.	L	30		
Standard Control Panel -EPmaster EPM6				
Protection, distribution, and automatic control panel, which starts the generator set wh	en it detects a mains	Faceplate	Controller	Internal Structure
failure and stops it when the mains is restored with the control unit EPM6. It also starts	s and stops the group		EPWASTER	
manually via a pushbutton or remote start-up by contact.				
It has the following:		0010		
G) Emergency stop push button Protections: Circuit breaker (preheating resist.) 2P (16 A)		🖉 🗖 🍊		
		POWER DATCH LAND FAILED		
Protection fuses for control module		GCB	Emergency Stop Button	Optional: ATS
③ Voltage&speed trimmers		and the second		
Battery charger			0 0	THE REAL INC.
⑤ DC switch			OGENCY	
Working Lamp switch				
⑦ Distribution:Direct output of the circuit breaker				

⑧ EPM6&EPM6+(cloud monitoring communication 4G)control and protection centre





EPmaster EPM6				
It has a digital LCD screen, which provides easy reading of the i	nformation regarding the Engine Alterator Mains and Charging	The controller me	ets all requirements for Auto Mains Failure (AMF) applications	
including remote communication and internet control, user config				
• READINGS that can be made:	Protection of the engine and alternator, with the ALARMS activated: Other charact		teristics:	
<u>Engine:</u> cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operati ng hours/number of start	Engine : low oil pressure/high coolant temperature/low and hi Event log, real-time		e clock, scheduled start & stop generator rt genset once a day/week/month whether with load or not). Maximu an be memorized.	
Alterator : voltages between phases and between phases and neutral/frequency/phase sequence	Alterator: /ow and high voltage/low and high frequency/overl oad /short-circuit/	With maintenance function. Types (date or running time) can be optional and a never, warning, or shutdown) can be set when maintenance time out.		
<u>Mains::f</u> requency/voltages between phases and between phas es and neutral (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 onl monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine so control starting up, shutdown, raising speed and speed droop via CANBUS p RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to M S protocol.		
	•Control of the set:			
	STARTS and STOPS the set AUTOMATICALLY when mains failure is detected and when it is restored, respectively.It can also operate MANUALLY and Auto Transfer Switch control	Parameter setting and cannot be los	: parameters can be modified and stored in internal FLASH memory t even in case of power outage; most of them can be adjusted using f controller and also can be modified using PC via USB or RS485 port.	
Standard Configuration & Option				
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Item	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	
Fasing	24V Electrical system		Engine water heater	
Engine	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/IP54/IP55	
AU	Insulation H class		Space heater/anti-condensation heater	
Alternator			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	
Electrical 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	
Accessories	Oil extraction pump		Trailer	
	Tool kit for maintenance		Residential silencer	
	Voltage/Speed potentiometer		Electric engine fuel heater	
			Expansion tank for coolant water	

Over All Size Length Height

Shipping Volume

Dry Weight Fuel Tank Capacity

Width

Generating Set transport data

Dimensions(Open Skid Type) With Standard Fuel Tank



VThe complete gen-set is mounted on whole on a heavy-duty fabricated,steel base frame. √ Antivibration pads are fixed between the engine/ alternator feet and the base frame ; √ Base frame design incorporates an integral fuel tank. √ The generating set can be lifted or carefully pushed / pulled by the base frame; Ubial type fuel gauge and drain plug on the fuel tank; √ Forklift pockets within base frame (up to 500kVA);

Dimensions(Silent Type) With Standard Fuel Tank



Length4000*1640*2400	mm	4800	
Height	mm	2100	
Width	mm	2550	
Shipping Volume	m3	25.70	
Dry Weight	Kg	4867	
Fuel Tank Capacity	L	710	

mm mm

mm

m3

Kg

All canopy parts are designed with modular principles.

vali canopy parts are designed with modular principles. √ Without welding assembly √ 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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