



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.

VW-229T6 powered by: TAD753GE

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

Diesel Genset Features

Diesel Genset Features		P.F=0.8 3Phase		
Service		P.R.P	Standby	
Rated output	kVA	229.0	253.8	
Active power output %	kW	183	203	
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		

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

wer reduction acc.to DIN ISO 3046 Standard values:Above 100m ALT approx.1% per 100m.Above 25℃(77下) approx.4% per 10℃(50下). %Considering cos phi=0.8

Prime Mover Performance 1800 r.p.m			·	
SERVICE		P.R.P	Standby	
Rated output	KW	212	233	
Manufacturer		VOLVO PENTA		
Model		TAD753GE		
4 stroke Diesel Engine - Injection type		Direct		
Aspiration type		Turbocharge		
Cylinders,number and arrangement		6		
Bore×Stroke	mm	108X130		
Total Displacement	L	7.15		
Cooling system		Water		
Compression ratio		18:1		
Specific fuel consumption(P.R.P)	L/H	52.72		
Total coolant capacity	L	34		
Speed governor	Туре	Common rail with CAN-bus communication		

①P.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.

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 overload available. Applicable in case of failure of the main in areas		AWOIR.		
Synchronous Generator				
Manufacturer			Guericke	
Model		GRK 183G4		
Rated output			183	
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 cos	sΦ=0.8-1.0
%Alternator used by GTL Gensets meet the requirements of following Standard:BS50	00,VDE0530,NEMA M	G1-32,IEC34,CA C22.2-100,AS1359		
Generationg Set Installation Data		1800 r.p.m	1	
EXHAUST SYSTEM		•		
Exhaust Gas Temperature at full load	°C		496	
	°F		924.8	
Exhaust gas flow	L/s		646.7	
Maximum allowed back pressure AIR REQUIREMENT	Кра		1	
	L/s		233.3	
Air requirement for combustion at 100% load/rated speed	ft3/min(CFM)		494.1	
ELECTRIC STARTING SYSTEM				
Starting motor output	kw	5		
Standard Battery Charging System	A	100		
Auxiliary voltage	V	24		
LUBRICATION SYSTEM				
Lube oil system including sump,filters,etc.	L		34	
Standard Control Panel -EPmaster EPM4				
Protection, distribution, and automatic control panel, which starts the generator set whether the starts are started as a start of the		Faceplate	Controller	Internal Structure
failure and stops it when the mains is restored with the control unit EPM4. It also start	ts and stops the group		EPMASTER	
manually via a pushbutton or remote start-up by contact.			Ann 📴 (81 (8,00))	
It has the following:			▲ 41 8.00 8.060 82 1044 65 13.00 80 68290 (0)	
 Emergency stop push button 				
(2) Protections:				And Address of the Ad
Circuit breaker (preheating resist.) 2P (16 A)		POLEN DATTON LAW POLICE RECP		
Protection fuses for control module		GCB	Emergency Stop Button	Optional: ATS
③ Voltage&speed trimmers		and the second		
Battery charger			0 0	
⑤ DC switch ⑥ Working Lamp switch			SAUENCY OF	
O Distribution:Direct output of the circuit breaker				
 BPM4&EPM4+(cloud monitoring communication 			9 9	
4G)control and protection centre				The second se

EPmaster EPM4				
It has a digital LCD screen, which provides easy reading of the	information 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		The controller me		
• 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 : Iow 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 only c monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, bi so control starting up, shutdown, raising speed and speed droop via CANBUS port		
			5485 communication interface enables "Three remote" functions mote control, remote measuring and remote communication) according to MODBU protocol	
	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		•		
· ·			0.1	
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			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			
	Tool kit for maintenance		Trailer 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

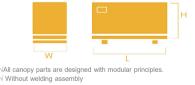
Generating Set transport data

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(Open Skid Type) With Standard Fuel Tank



ISO 9001

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.

Over All Size			
Length	mm	4360	
Height	mm	1700	
Width	mm	2300	
Shipping Volume	m3	17.05	
Dry Weight	Kg	4331	
Fuel Tank Capacity	L	420	

mm mm

mm

m3

Kg



3300 1390

1830

8.39

2971 420

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