

# PW-1023T5 powered by:



### **DESIGN SPECIFICATIONS**

√High quality,reliable,long life and complete power unit.

√compact design. √Easy start and maintenance possibility.

VEvery 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

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# 4008TAG2A

Diesel Genset Features		P.F=0.8 3Phase	
Generating Set Performance		50Hz	
Service		Prime Power	Standby Power
Rated output	kVA	1022.5	1125
Active power output  %	kW	818	900
Rated Speed	r.p.m	1500	
Standard Voltage	V	400/230	
Voltage available	V	380/220 - 415/240	

vollage rence Conditions of ISO 85 +25°C,100m ALT,relat ve 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 ).

Prime Mover Performance		1500 r.p.m	
SERVICE		P.R.P Stand	
Rated output	KW	899	985
Manufacturer		Pe	rkins
Model		4008TAG2A	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		turbocharged	
Cylinders,number and arrangement		8-L	
Bore×Stroke	mm	160X190	
Total Displacement	L	30	0.561
Cooling system		Water	
Lube oil specifications		SAE 15 W 40	
Compression ratio		13.6:1	
Specific fuel consumption(P.R.P)	L/h	215.0	
Specific oil consumption(at full load)	%	0.52	
Total coolant capacity	L	149	
Speed governor	Туре	Electronic	

(I) 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.

@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		1500 r.p.m
Manufacturer		Guericke
Model		GRK900G4
Rated output	KW	900
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 (PMG MX341)
Steady voltage precision		within±1.5% from no load to full loading with cosΦ=0.8-1.0

lard:BS5000,VDE0530,NEMA MG1-32,IEC34,CA C22.2-100,AS1359 used by GTL Gensets meet the requirements of following Stan

Generationg Set Installation Data	1500 r.p.m	
EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	°C	438
Exhaust Gas Temperature at full load	°F	820.4
Exhaust gas flow	L/s	3333.3
Maximum allowed back pressure	Кра	9.287
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/s	1250
Air requirement for compusitori at 100% load/rated speed	ft3/min(CFM)	2647.1
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	8.2
Minimum Recommended Battery Capacity-Cold Soak @ 50 °F (to 10°C)	CCA	1400
Standard Battery Charging System	A	55
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	153

# Standard Control Panel -EPmaster EPM7

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 EPM7. It also starts and stops the group manually via a pushbutton or remote start-up by contact.

It has the following: Emergency stop push button ② Protections: Circuit breaker (preheating resist.) 2P (16 A) Protection fuses for control module ③ Voltage&speed trimmers ④ Battery charger ⑤ DC switch ⑥ Working Lamp switch ⑦ Distribution:Direct output of the circuit breaker (8) EPM7 control and protection centre;



#### EPmaster EPM7

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 Protection of the engine and alternator, with the **READINGS** that can be made: •Other characteristics: ALARMS activated: Engine: low oil pressure/high coolant temperature/low and high battery Voltag e./failure of the alternator to charge batteries/Low fuel level. Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/ PLC (programmable logic control) function allows for specific function can be user-defined attery voltage/battery alternator voltage/operating hours/number of start Alterator: low and high voltage/low and high frequency/loss of phase/phase Alterator : voltages between phases and between phases and neutral/frequences Equipped with CANBUS port and can communicate with J1939 enginet. Not only can monitor equence wrong/over and reverse power/short-circuit/earth Fault ency/phase sequence equently-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 droc via CANBUS port Mains: frequency/voltages between phases and between phases and neut Mains: over and under voltage/over and under frequency / loss of al (L1-N, L2-N,L3-N)/voltages between phases and (L1-L2, L2-L3, L1-L3)/phase sequence hase/phase sequence wrong RS485 communication interface enables "Three remote" functions (remote control, remote me asuring and remote communication) according to MODBUS protocol. Load: Current(Ia,Ib,Ic)and each phase and total active power(kw)/reactive power(kvar)/apparent power(kva)/power factor/accumulated generator pow Equipped with SMS (Short Message Service) function. When genset is alarming, controller ca send short messages via SMS automatically to max. 5 telephone numbers. besides, general or status can be controlled and checked using SMS(GSM port is needed) er(kwh,kvah,kvah)/output percentage with load (%) Other characteristics: Event log, real-time clock, scheduled start & stop generator (can be set as arameter setting: parameters can be modified and stored in internal FLASH memory and can ot be lost even in case of power outage; most of them can be adjusted using front panel of th controller and also can be modified using PC via USB or RS485 port. Control of the set: start genset once a day/week/month whether with load or not) STARTS and STOPS the set AUTOMATICALLY when mains failure is With maintenance function. Actions (warning or shutdown) can be set when detected and when it is restored, respectively. It can also operate naintenance time due;

## Standard Configuration & Option

Standard Configuration & O		
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
a sin s	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
lternator	Insulation H class	Space heater/anti-condensation heater
liternator		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
lectrical system	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grouding rod
		ATS
Accessories	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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

### Generating 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. √ Antivibration pads are fixed between the engine/ alternator feet and the base frame

√ Base frame design incorporates an integral fuel tank.

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

 $\sqrt{\rm Dial}$  type fuel gauge and drain plug on the fuel tank;  $\sqrt{\rm Forklift}$  pockets within base frame (up to 500kVA);

### Dimensions(Silent Type) With Standard Fuel Tank



All 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.

VEasy maintenance and operation



Length	mm	4920	
Width	mm	2150	
Height	mm	2650	
Shipping Volume	m3	28.03	
Dry Weight	Kg	7800	
Fuel Tank Capacity	L	1000	

# Over All Size

Over All Size

mm	6050
mm	2438
mm	2591
m3	38.22
Kg	11550
L	1000
	mm mm m3



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