



# **PW-1500T6** powered by:

## 4012-46TAG2A

### **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 testing.

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

Diesel Genset Features		P.F=0.8 3Phase	
Generating Set Performance		60	Hz
Service		P.R.P	Standby
Rated output	kVA	1500	1650
Active power output	kW	1200	1320
Rated Speed	r.p.m	18	00
Standard Voltage	V	400/	/230
Voltage available	V	V 380/220-400/230 - 416/240 -	440/254 - 460/265 - 600/346 V

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

ower reduction acc.to DIN ISO 3046 Standard values: Above 100m ALT approx.1% per 100m. Above 25  $ilde{ ilde{\tau}}(77^{\circ}F)$  approx.4% per 10  $ilde{ ilde{\tau}}(50^{\circ}F)$ .

Prime Mover Performance 1800 r.		1800 r.p.m	
SERVICE		P.R.P	Standby
Rated output	KW	1331	1459
Manufacturer		Perk	ins
Model		4012-46	TAG2A
4 stroke Diesel Engine - Injection type		Dire	ct
Aspiration type		turbocharged	
Cylinders,number and arrangement		12-	V
Bore×Stroke	mm	160X	190
Total Displacement	L	45.8	42
Cooling system		Wat	er
Lube oil specifications		API CG4	15W/40
Compression ratio		13:	1
Specific fuel consumption(P.R.P)	L/h	315.	0
Specific oil consumption(at full load)	%	0.42	64
Total coolant capacity	L	21	0
Speed governor	Туре	Electr	onic

DPR.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.

Nax 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. to overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Synchronous Generator		
Manufacturer		Guericke
Model		GRK 1200G4
Rated output		1200
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

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

Generationg Set Installation Data		1800 r.p.m
EXHAUST SYSTEM		·
Exhaust Gas Temperature at full load	℃	403
Exhaust Gas Temperature at full load	°F	757.4
Exhaust gas flow	L/s	4783.3
Maximum allowed back pressure	Кра	5
AIR REQUIREMENT		
Air requirement for combustion at 100% lead/retail aread	L/s	2083.3
Air requirement for combustion at 100% load/rated speed	ft3/min(CFM)	4411.8
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	16.4
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	1600
Standard Battery Charging System	A	55
Auxiliary voltage	V	24
LUBRICATION SYSTEM		·
Lube oil system including sump, filters, etc.	L	177

## 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 mains 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

Battery charger
 DC switch

Working Lamp switch

② Distribution:Direct output of the circuit breaker

® EPM7&EPM7+(cloud monitoring

communication 4G)control and protection centre











### EPmaster EPM7

t 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 READINGS that can be made: Other characteristics: the ALARMS activated: Engine: cooling temperature/oil pressure/revolution speed Engine: low oil pressure/high coolant temperature/low and hi 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). Maximu (rpm)/fuel level/battery voltage/battery alternator voltage/c gh battery Voltage./failure of the alternator to charge batteries rating hours/number of start Low fuel level. m 99 event logs can be memorized. With maintenance function. Types (date or running time) can be optional and actions ( Alterator: voltages between phases and between phases Alterator: /ow and high voltage/low and high frequency/overl nd neutral/frequency/phase sequence ever, warning, or shutdown) can be set when maintenance time out. Mains: frequency/voltages between phases and between Equipped with CANBUS port and can communicate with J1939 enginet. Not only can phases 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 monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, but a so control starting up, shutdown, raising speed and speed droop via CANBUS port RS485 communication interface enables "Three remote" functions Control of the set: (remote control, remote measuring and remote communication) according to MODBU S protocol STARTS and STOPS the set AUTOMATICALLY when mains Parameter setting: parameters can be modified and stored in internal FLASH memory failure is detected and when it is restored, respectively. It can and cannot be lost even in case of power outage; most of them can be adjusted using ront panel of the controller and also can be modified using PC via USB or RS485 port. also operate MANUALLY and Auto Transfer Switch control

#### **Standard Configuration & Option** Item Standard Option Standard air filter Heavy duty air filter Standard fuel filter Air intake shutoff valve chalwin type tandard oil filter ntake air heater Low coolant level sensor Oil temperature sensor Exhaust gases compensator Diesel-powered heater 24V Electrical system Engine water heater Engine Radiator with bloweing fan Electronic governor Sender WT ender OP Hot components and radiator guards Mobile components guards elf-excited and Self-regulated Air inlet filter IP23 protection degree P44/IP54/IP55 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

# Generating Set transport data

Dimensions(Open Skid Type) With Standard Fuel Tank



Accessories



The complete gen-set is mounted on whole on a heavy-duty fabricated, steel base frame.

Water separator filter

Low fuel level alarm

Oil extraction pump

Tool kit for maintenance Voltage/Speed potentiometer

- 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;
- Dial type fuel gauge and drain plug on the fuel tank;
- Forklift pockets within base frame (up to 500kVA):

## Over All Size

Length	mm	4900	
Height	mm	2200	
Width	mm	2615	
Shipping Volume	m3	28 10	
Shipping Volume Dry Weight	m3 Kg	28.19 10280	

Diverter valve kit for external fuel tank

Automatic fuel refilling kit

Electric engine fuel heater

Trailer Residential silencer

## 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.

Thermally insulated engine exhaust system.

Emergency stop push button outside of canopy. Easy maintenance and operation

ISO 💕

9001

### Over All Size

Length	mm	12192
Height	mm	2438
Width	mm	2895
Shipping Volume	m3	86.05
Dry Weight	Kg	19500
Fuel Tank Capacity	L	1600

