



# PW-1688T6 powered by:

## 4012-46TAG3A

### **DESIGN SPECIFICATIONS**

 $\sqrt{\text{High quality,reliable,long life and complete power unit.}}$   $\sqrt{\text{compact design.}}$ 

#### √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.

√Fully engineered with a wide range of options and accessories: Electrical mechanical soundproof canony and mobile units

accessories. Electrical, nechanical, soundproof canopy and mobile units					
Diesel Genset Features		P.F=0.8 3Phase			
Generating Set Performance		60Hz			
Service		P.R.P	Standby		
Rated output	kVA	1688	1875		
Active power output ※	kW	1350	1500		
Rated Speed	r.p.m	1800			
Standard Voltage	V	400/230			
Voltage available	V	V 380/220-400/230 - 416/240 - 440/254 - 460/265 - 600/346 V			
Perforemance data refer to Standard Reference Conditions of ISO 8	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 °C (77 °F ) approx.4% per 10 °C (50 °F ).

Prime Mover Performance	1800 r.p.m					
SERVICE		P.R.P	Standby			
Rated output	KW	1500	1643			
Manufacturer		Per	kins			
Model		4012-46	6TAG3A			
4 stroke Diesel Engine - Injection type		Direct				
Aspiration type		turbocharged				
Cylinders,number and arrangement		12-V				
Bore×Stroke	mm	160X190				
Total Displacement	L	45.842				
Cooling system		Wa	ater			
Lube oil specifications		API CG4	4 15W/40			
Compression ratio		13	3:1			
Specific fuel consumption(P.R.P)	L/h	356.0				
Specific oil consumption(at full load)	%	0.426				
Total coolant capacity	L	210				
Speed governor	Туре	Electronic				

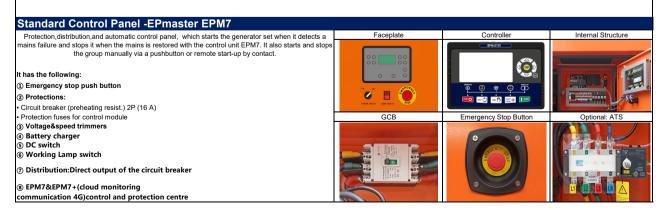
(P.R.P. Prime Power - ISO 8528: PRIME POWER is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The ermissible average power output during a 24 hours period shall not exceed 80% of the prime 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		
Manufacturer		Guericke
Model		GRK 1350G4
Rated output		1350
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	°C	417
Exhaust Gas Temperature at full load	°F	782.6
Exhaust gas flow	L/s	5200.0
Maximum allowed back pressure	Кра	5
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/s	2266.7
Air requirement for compusiton at 100% load/rated speed	ft3/min(CFM)	4800.0
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	40
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	177



## EPmaster EPM7

READINGS that can be made:	rotection of the engine and alternator, with eALARMS activated:		teristics:			
<u>Engine:</u> cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/o perating hours/number of start		e batteries	Event log, real-time clock, scheduled start & stop generator (can be set as start genset once a day/week/month whether with load o m 99 event logs can be memorized.		day/week/month whether with load or not). Maxim	
<u>Alterator</u> : voltages between phases and between phases and neutral/frequency/phase sequence	<u>Alterator:</u> /ow and high voltage/low and high frequer oad /short-circuit/			function. Types (date or running time) can be optional and actions shutdown) can be set when maintenance time out.		
Mains: frequency/voltages between phases and between ohases and neutral (L1-N, L2-N,L3-N)/voltages between ohases and (L1-L2, L2-L3, L1-L3)/phase sequence	<u>Mains:</u> over and under voltage and loss of phase	1	Equipped with CANBUS port and can communicate with J1939 enginet. Not o monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machir so control starting up, shutdown, raising speed and speed droop via CANBUS		h as water fuel consumption and so on) of ECU machine, but a	
	•Control of the set:		RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according t 5 protocol.			
	STARTS and STOPS the set AUTOMATICALLY wh failure is detected and when it is restored, respectiv also operate MANUALLY and Auto Transfer Switch	vely.It can	S protocol. Parameter setting: parameters can be modified and stored in internal FLASH and cannot be lost even in case of power outage; most of them can be adjus ront panel of the controller and also can be modified using PC via USB or R		power outage; most of them can be adjusted using	
Standard Configuration & Option						
Item	Standard			Option		
	Standard air filter			Heavy duty air f	ilter	
	Standard air Inter Standard fuel filter			Air intake shutoff valve chalwin type		
				Intake air heater		
	Standard oil filter Low coolant level sensor			Oil temperature sensor		
				Diesel-powered heater		
	Exhaust gases compensator		Engine water heater			
Engine	24V Electrical system		Ligino water rieater			
	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			
Alternator	Insulation H class			Space heater/anti-condensation heater		
Ritemator				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 Residential allensor		
	Tool kit for maintenance		Residential silencer			
	Voltage/Speed potentiometer			Electric engine fuel heater Expansion tank for coolant water		
	No Expansion tank			Expansion tank	for coolant water	
Generating Set transport data						
	ard Fuel Tank					
Dimensions(Open Skid Type) With Stand						
Dimensions(Open Skid Type) With Stand		r All Size				
Dimensions(Open Skid Type) With Stand	Over Length	th		mm	5700	
Dimensions(Open Skid Type) With Stand	Over	th nt		mm mm mm	5700 2200 2700	

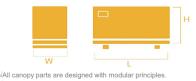
Shipping Volume

Dry Weight Fuel Tank Capacity



√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. √ The generating set can be lifted or carefully pushed / pulled by the base frame; Ublal 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



Over All Size			
Length	mm	12192	
Height	mm	2438	
Width	mm	2895	
Shipping Volume	m3	86.05	
Dry Weight	Kg	20300	
Fuel Tank Capacity	L	1600	

m3

Kg L

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.



ISO 9001



33.86

10300

1600

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