



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

DESIGN SPECIFICATIONS

√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

√Fully engineered with a wide range of options and

accessories:Electrical,mechanical,soundproof canopy and mobile units

4016-61TRG3

PW-2250T5 powered by:

Diesel Genset Features		P.F=0.8 3Phase	
Generating Set Performance		50Hz	
Service		P.R.P	Standby
Rated output	kVA	2250.0	2500.0
Active power output **	kW	1800.0	2000.0
Rated Speed	r.p.m	15	00
Standard Voltage	V	400/230	
Voltage available	V	380/220	- 415/240

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°F) approx.4% per 10℃(50°F).

«Considering cos phi=0.8

Prime Mover Performance		1500 r.p.m	
SERVICE		P.R.P	Standby
Rated output	KW	1975	2183
Manufacturer		Perkins	
Model		4016-61TRG3	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		turbocharged	
Cylinders,number and arrangement		16-V	
Bore×Stroke	mm	160X190	
Total Displacement	L	61.123	
Cooling system		V	Vater
Lube oil specifications		API CG4 15W/40	
Compression ratio		13.1	
Specific fuel consumption(P.R.P)	L/h	470.0	
Total coolant capacity	L	270	
Speed governor	Type	Ele	etronic

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

Synchronous Generator		
Manufacturer		Guericke
Model		GRK 1800G4
Rated output		1800
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		1500 r.p.m	
EXHAUST SYSTEM		· ·	
Exhaust Gas Temperature at full load	℃	475	
	°F	887	
Exhaust gas flow	L/s	8750.0	
Maximum allowed back pressure	Кра	4	
AIR REQUIREMENT			
Air requirement for combustion at 100% load/rated speed	L/s	2666.7	
Air requirement for combustion at 100% load/rated speed	ft3/min(CFM)	5647.1	
ELECTRIC STARTING SYSTEM			
Starting motor output	kw	16.4	
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	2000	
Standard Battery Charging System	Α	55	
Auxiliary voltage	V	24	
LUBRICATION SYSTEM			
Lube oil system including sump,filters,etc.	L	213	

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:

- 1 Emergency stop push button
- ② Protections:
- Circuit breaker (preheating resist.) 2P (16 A)
- Protection fuses for control module
- ③ Voltage&speed trimmers
- Battery charger
- ⑤ 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

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 of	configuration and complete genset monitoring and protection.	
READINGS that can be made:	•Protection of the engine and alternator, with the ALARMS activated:	*Other characteristics:
	Engine: low oil pressure/high coolant temperature/low and hi gh battery Voltage./failure of the alternator to charge batteries /Low fuel level.	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 m 99 event logs can be memorized.
<u>Alterator :</u> voltages between phases and between phases and neutral/frequency/phase sequence		With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.
Mains: frequency/voltages between phases and between 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	Equipped with CANBUS port and can communicate with J1939 enginet. Not only can monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, but al so control starting up, shutdown, raising speed and speed droop via CANBUS port
	I.Control of the set:	RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBU S protocol.
	also operate MANI IALLY and Auto Transfer Switch control	Parameter setting: parameters can be modified and stored in internal ELASH memory.

Standard Configuration & Option		
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
Familia -	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
A 14 4	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
Electrical system	3 poles circuit breaker	4 poles circuit breaker
	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





Over All Size		
Length	mm	6650
Height	mm	2800
Width	mm	3275
Shipping Volume	m3	60.98
Dry Weight	Kg	14200
Fuel Tank Capacity		2000

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

Dimensions(Silent Type) With Standard Fuel Tank





Over All Size		
Length	mm	12192
Height	mm	3200
Width	mm	3200
Shipping Volume	m3	124.85
Dry Weight	Kg	28200
Fuel Tank Capacity	L	2000

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. √Easy maintenance and operation.

TW I	ISO
500	9001

