



DESIGN SPECIFICATIONS

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

VEasy 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.

PW-1250T6 powered by:

4012-46TWG2A

| 4012-46TWG2A | | √Fully engineered with a wide range o accessories:Electrical,mechanical,so | | |
|---------------------------------------|-------|---|------------------------------|--|
| Diesel Genset Features P.F=0.8 3Phase | | P.F=0.8 3Phase | | |
| enerating Set Performance 60Hz | | z | | |
| Service | | P.R.P | Standby | |
| Rated output | kVA | 1250 | 1375 | |
| Active power output % | kW | 1000 | 1100 | |
| Rated Speed | r.p.m | 1800 | 1800 | |
| Standard Voltage | V | 400/230 | | |
| Voltage available | V | V 380/220-400/230 - 416/240 - 4 | 40/254 - 460/265 - 600/346 V | |

wer 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).

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

Considering cos phi=0.8

| Prime Mover Performance | | 1800 r.p.m | | | | |
|---|------|--------------|------------|--|--|--|
| SERVICE | | P.R.P | Standby | | | |
| Rated output | KW | 1106 | 1217 | | | |
| Manufacturer | | Perkins | | | | |
| Model | | 4012-46TWG2A | | | | |
| 4 stroke Diesel Engine - Injection type | | Direct | | | | |
| Aspiration type | | turbocharged | | | | |
| Cylinders,number and arrangement | | 12-V | | | | |
| Bore×Stroke | mm | 160X190 | | | | |
| Total Displacement | L | 45.482 | | | | |
| Cooling system | | | Water | | | |
| Lube oil specifications | | API (| CG4 15W/40 | | | |
| Compression ratio | | | 13:1 | | | |
| Specific fuel consumption(P.R.P) | L/h | 266.0 | | | | |
| Specific oil consumption(at full load) | % | 0.7 | | | | |
| Total coolant capacity | L | 201 | | | | |
| Speed governor | Туре | Electronic | | | | |

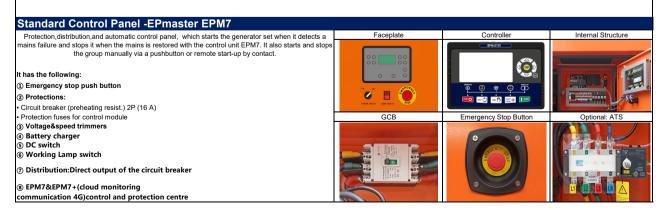
P.R.P. Prime Power - ISO 8528:PRIME POWER is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The rmissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

2)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 20h per year.

| Synchronous Generator | | |
|----------------------------------|-------|--|
| Manufacturer | | Guericke |
| Model | | GRK 1000G4 |
| Rated output | | 1000 |
| 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 | 430 |
| Exhaust Gas Temperature at full load | °F | 806 |
| Exhaust gas flow | L/s | 3916.7 |
| Maximum allowed back pressure | Кра | 5 |
| AIR REQUIREMENT | | |
| Air requirement for combustion at 100% load/rated speed | L/s | 1816.7 |
| | ft3/min(CFM) | 3847.1 |
| 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: | •Protection of the engine and alternator, with the ALARMS activated: | | Other charact | teristics: | | |
|---|---|------------------------|--|---|---|--|
| Engine :cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/o perating hours/number of start | Engine : low oil pressure/high coolant temperature/lo gh battery Voltage./failure of the alternator to charge /Low fuel level. | batteries (| Event log, real-time clock, sche (can be set as start genset onc m 99 event logs can be memor | | a day/week/month whether with load or not). Maximu | |
| Alterator : voltages between phases and between phases and neutral/frequency/phase sequence | <u>Alterator:</u> /ow and high voltage/low and high frequen oad /short-circuit/ | | | e function. Types (date or running time) can be optional and actions shutdown) can be set when maintenance time out. | | |
| <u>Mains:</u> 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 | Mains: over and under voltage and loss of phase | r t | Equipped with CANBUS port and can communicate with J1939 enginet. No monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU mac so control starting up, shutdown, raising speed and speed droop via CANBU | | h as water fuel consumption and so on) of ECU machine, but | |
| | •Control of the set: | (| RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to S protocol. | | | |
| | STARTS and STOPS the set AUTOMATICALLY who failure is detected and when it is restored, respective also operate MANUALLY and Auto Transfer Switch | en mains ely.lt 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 RS | | f power outage; most of them can be adjusted using | |
| Standard Configuration & Option | | | | | | |
| Item | Standard | | | Option | | |
| | Standard air filter | | | Heavy duty air | filter | |
| | Standard an inter | | | 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 | | | |
| | 24V Electrical system | | | Engine water heater | | |
| Engine | Radiator with bloweing fan | | Engine water n | | | |
| | - | | | | | |
| | Electronic governor | | | | | |
| | Sender WT Sender OP | | | | | |
| | Sender OP Hot components and radiator guards | | | | | |
| | Mobile components quards | | | | | |
| | Self-excited and Self-regulated | | | Air inlet filter | | |
| | - | | | IP44/IP54/IP55 | | |
| | IP23 protection degree | | | Space heater/anti-condensation heater | | |
| Alternator | Insulation H class | | | | | |
| | | | | Environment protection | | |
| | | | Temperature detectors | | | |
| | Detter indeter with | | 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 | | |
| | 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 Stand | | | | | | |
| | | | | | | |
| | | All Size | | | | |
| | Over Length Height | h | | mm mm | 4650 2100 | |

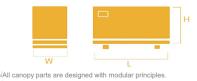
Shipping Volume

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 | 18500 | |
| Fuel Tank Capacity | L | 1300 | |

m3

Kg

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



25.88

9050

1500

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