

PW-450T5 powered by:

2506C-E15TAG1 Diesel Genset Features

2506C-E15TAG1				
Diesel Genset Features			P.F=0.8 3Pt	nase
Generating Set Performance		50H	z	
Service			Prime Power	Standby Power
Rated output		kVA	450.0	500.0
Active power output ※		kW	360.0	400.0
Rated Speed		r.p.m	1500)

DESIGN SPECIFICATIONS

soundproof canopy and mobile units

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

400/230

380/220 - 415/240

√compact design.
√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 testing. \Fully engineered with a wide range of options and accessories:Electrical,mechanical,

ta refer to Standard Reference Conditions of ISO 8528: +25 °C.100m ALT relative humidity

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

Standard Voltage

Voltage available

Service Rated output Active power output * Rated Speed

Prime Mover Performance		1500 r.p.m	
SERVICE		Prime Power	Standby Power
Rated output	KW	412	451
Manufacturer		Per	kins
Model		2506C-E	15TAG1
4 stroke Diesel Engine - Injection type		Dir	ect
Aspiration type		turbocharged, air-to	o-air charge cooling
Cylinders,number and arrangement		6-	-L
Bore×Stroke	mm	137)	(171
Total Displacement	L	1	5
Cooling system		Wa	ater
Emission Certification		Sta	ge II
Compression ratio		16.	3:1
Specific fuel consumption(P.R.P)	L/h	9	9
Specific oil consumption(at full load)	%	<(0.1
Total coolant capacity	L	58	
Speed governor	Туре	Electronic ECM	

①P.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		GRK360G4
Rated output	KW	360
Poles	num	4
Winding Conections (standard)		Star-serie Star-serie
Insulation	class	Н
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Votage Regulaors		A.V.R (SX440)
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				
Evhauet Con Temporature at full load	℃	550		
Exhaust Gas Temperature at full load	°F	1022		
Exhaust gas flow	L/s	1416.7		
Maximum allowed back pressure	Кра	6.8		
AIR REQUIREMENT				
Air requirement for combustion at 100% load/rated speed	L/s	550		
All requirement for combustion at 100% load/rated speed	ft3/min(CFM)	1164.7		
ELECTRIC STARTING SYSTEM				
Starting motor output	kw	7.5		
Minimum Recommended Battery Capacity-Cold Soak @ -4 °F (-20 °C)	CCA	1250		
Standard Battery Charging System	A	70		
Auxiliary voltage	V	24		
LUBRICATION SYSTEM				
Lube oil system including sump,filters,etc.	L	62		

Standard Control Panel -EPmaster EPM6

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 EPM4. 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

⑤ DC switch

Working Lamp switch

① Distribution:Direct output of the circuit breaker

® EPM6&EPM6+(cloud monitoring communication 4G)control

and protection centre

Internal Structure Faceplate Controller GCB Emergency Stop Button Optional: ATS

EPmaster EPM6

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.

READINGS that can be made:
Engine: 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
Alterator: voltages between phasesand between phases and

utral/frequency/phase sequence

Mains: :frequency/voltages between phases and between phases and neutral (L1-N, L2-N,L3-N)/voltages between phases and (L1-L2, L2-L3, L1-3)/phase sequence

Load: Current(Ia,Ib,Ic)and each phase and total active power(kw)/reactive power(kvar)/apparent power(kva)/power factor/accumulated generator power(kwh,kvah,kvah)/output percentage with load (%)

Protection of the engine and alternator, with the ALARMS activated:

<u>Engine</u>:low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries/Low fuel level.

Alterator: low and high voltage/low and high frequency/overload /short-circuit

Mains: over and under voltage and loss of phase

Control of the set:

STARTS and STOPS the set AUTOMATICALLY when mains failure is detected and when it is restored, respectively.It can also operate MANUALLY and Auto Transfer Switch control

Other characteristics:

vent log, real-time clock, scheduled start & stop generator (can be set as start genset once a day/week/month whether with load or not). Maximum 99 event logs cal oe memorized.

With maintenance function. Types (date or running time) can be selected and actions

warning or alarm shutdown) can be set when maintenance time out

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 also control starting up, shutdown, raising speed and speed droop via CANBUS port

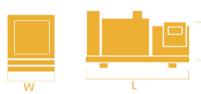
RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.

Parameter setting: parameters can be modified and stored in internal FLASH memory and cannot be lost even in case of power outage; most of them can be adjusted using front panel of the controller and also can be modified using PC via USB or RS485 por

Standard Configuration & O	ption	
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
naina	24V Electrical system	Engine water heater
ngine	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
Itarnatar	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
		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

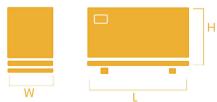


- The complete gen-set is mounted on whole on a heavy-duty fabricated, steel base frame.
- √ Antivibration pads are fixed between the engine/ alternator feet and the base frame
- √ Base frame design incorporates an integral fuel tank.
- $\sqrt{}$ The generating set can be lifted or carefully pushed / pulled by the base frame;
- √Dial type fuel gauge and drain plug on the fuel tank;
- √ Forklift pockets within base frame (up to 500kVA):

Over All Size

Length	mm	3400
Width	mm	1342
Height	mm	2210
Shipping Volume	m3	10.08
Dry Weight	Kg	3450
Fuel Tank Capacity	L	900

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.
- √Easy maintenance and operation.

Over All Size

Lengui	111111	4040
Width	mm	1440
Height	mm	2522
Shipping Volume	m3	16.85
Dry Weight	Kg	5100
Fuel Tank Capacity		900



