

XCW-106T6 powered by: **CA4F2-14D**



DESIGN SPECIFICATIONS

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

VEasy 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,soundproof canopy and mobile units

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Diesel Genset Features P.F=0.8 3Phase		F=0.8 3Phase	
Generating Set Performance		60Hz	
Service		P.R.P	Standby
Rated output	kVA	106.0	117.0
Active power output **	kW	85	93.5
Rated Speed	r.p.m	1800	
Standard Voltage	V	380/220	
Voltage available	V	480/277-460/265 - 440/254-416/240-240/139-220/127-208/120	

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

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).

Prime Mover Performance		1800 r.p.m	
SERVICE		P.R.P	Standby
Rated output	KW	101	110
Manufacturer		FAW	
Model		CA4F2-14D	
1 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged & Intercooled	
Cylinders,number and arrangement		4-	-L
Bore×Stroke	mm	110X125	
Total Displacement	L	4.	75
Cooling system		Water-	cooled
_ube oil specifications		SAE 15	5 W 40
Compression ratio		17	7:1
Specific fuel consumption(P.R.P)	L/h	25	
Specific oil consumption(at full load)	%		•
Total coolant capacity	L	7.6	
Speed governor	Type	Electronical	

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.

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. No verload available. Applicable in case of failure of the main in areas of reliable electrical network.

Synchronous Generator			
Manufacturer		Guericke	
Model		GRK 85G4	
Rated output		85	
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 (SX460)	
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 860 Exhaust gas flow L/s 318.3 Kpa 6.7 AIR REQUIREMENT L/s ft3/min(CFM) 125.0 264.7 Air requirement for combustion at 100% load/rated speed ELECTRIC STARTING SYSTEM 5.5 Starting motor output kw Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C) CCA tandard Battery Charging System 24 LUBRICATION SYSTEM ube oil system including sump,filters,etc

Standard Control Panel -EPmaster EPM4

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
DC switch

Working Lamp switch

⑦ Distribution:Direct output of the circuit breaker

® EPM4&EPM4+(cloud monitoring communication

4G)control and protection centre



EPmaster EPM4

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.

Protection of the engine and alternator, with READINGS that can be made: Other characteristics: the ALARMS activated: Engine:cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/opera Engine: Low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries 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 ng hours/number of start ow fuel level. n 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 and Alterator: /ow and high voltage/low and high frequency/overl ever, warning, or shutdown) can be set when maintenance time out. eutral/frequency/phase sequence ad /short-circuit/ 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 Equipped with CANBUS port and can communicate with J1939 enginet. Not only can Mains: over and under voltage and loss of phase monitor frequently-used data (such as water emperature, 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 RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBU Control of the set: S protocol. STARTS and STOPS the set AUTOMATICALLY when main Parameter setting: parameters can be modified and stored in internal FLASH memory

failure is detected and when it is restored, respectively. It can also operate MANUALLY and Auto Transfer Switch control 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. Standard Configuration & Option Standard Option Item

	Standard air filter	Heavy duty air filter
Engine		
	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
	24V Electrical system	Engine water heater
	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
Alternator		Environment protection
		Temperature detectors
		Parallel operation
Electrical system	Battery isolator switch	Distribution board with sockets kit and power busbar
	3 poles circuit breaker	4 poles circuit breaker
	Door opening alarm	Adjustable ELCB(Earth Fault)
	Battery charger 220-240V	Grouding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
Accessories	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



- 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);

Length	mm	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity		200

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

Over All Size			
Length	mm	2350	
Height	mm	1040	
Width	mm	1730	
•			
Shipping Volume	m3	4.23	
Dry Weight	Kg	1420	
Fuel Tank Capacity	L	200	

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.

ISO TUV 9001

