



DESIGN SPECIFICATIONS

- √ High quality, reliable, long life and complete power unit.
- √ 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, soundproof canopy and mobile units

DCW-225T5 powered by: 6LTAA8.9-G2

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

50Hz

Service		P.R.P	Standby
Rated output	kVA	225	250
Active power output※	kW	180	200
Rated Speed	r.p.m	1500	
Standard Voltage	V	400/230	
Voltage available	V	380/220 - 415/240	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1500 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	220	240
Manufacturer		Cummins	
Model		6LTAA8.9-G2	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged and Charge Air Cooled	
Cylinders, number and arrangement		6 -L	
Bore×Stroke	mm	114X145	
Total Displacement	L	8.9	
Cooling system		Water	
Lube oil specifications		SAE 15 W 40	
Compression ratio		16.6:1	
Specific fuel consumption(P.R.P)	L/h	53	
Specific oil consumption(at full load)	%	<0.1	
Total coolant capacity	L	34	
Speed governor	Type	Electronic	

① 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 permissible 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 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 180G4
Rated output		180
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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		

Generating Set Installation Data

1500 r.p.m

EXHAUST SYSTEM

Exhaust Gas Temperature at full load	°C	430
	°F	806
Exhaust gas flow	L/s	584.0
Maximum allowed back pressure	Kpa	10

AIR REQUIREMENT

Air requirement for combustion at 100% load/rated speed	L/s	248.0
	ft3/min(CFM)	525.2

ELECTRIC STARTING SYSTEM

Starting motor output	kw	6
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	750
Standard Battery Charging System	A	70
Auxiliary voltage	V	24

LUBRICATION SYSTEM

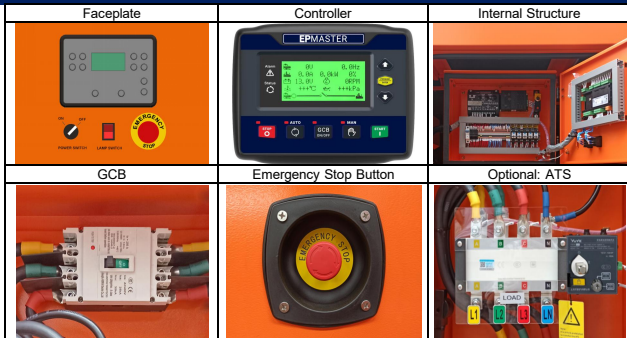
Lube oil system including sump, filters, etc.	L	27.6
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Standard Control Panel -EPmaster EPM4

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- 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, Alternator, 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.

<p>• READINGS that can be made:</p> <p>Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start</p> <p>Alternator: voltages between phases and between phases and neutral/frequency/phase sequence</p> <p>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</p>	<p>•Protection of the engine and alternator, with the ALARMS activated:</p> <p>Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level.</p> <p>Alternator: low and high voltage/low and high frequency/overload /short-circuit/</p> <p>Mains: over and under voltage and loss of phase</p> <p>•Control of the set:</p> <p>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</p>	<p>•Other characteristics:</p> <p>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). Maximum 99 event logs can be memorized.</p> <p>With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.</p> <p>Equipped with CANBUS port and can communicate with J1939 engine. 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</p> <p>RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.</p> <p>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 port.</p>
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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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.
- √ 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	2460
Height	mm	965
Width	mm	1750
Shipping Volume	m3	4.15
Dry Weight	Kg	1760
Fuel Tank Capacity	L	425

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.

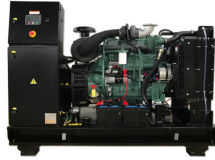
Over All Size

Length	mm	3200
Height	mm	1300
Width	mm	2140
Shipping Volume	m3	8.90
Dry Weight	Kg	2600
Fuel Tank Capacity	L	425



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XCW-56T6 powered by: 4DX22-75D

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

60Hz

Service		P.R.P	Standby
Rated output	kVA	56.3	61.9
Active power output**	kW	45	49.5
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

**Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	55	60.5
Manufacturer		FAW	
Model		4DX22-75D	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged	
Cylinders, number and arrangement		4 -L	
Bore*Stroke	mm	102X118	
Total Displacement	L	3.86	
Cooling system		Water	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17:1	
Specific fuel consumption(P.R.P)	L/h	14.4	
Specific oil consumption(at full load)	%	<0.06	
Total coolant capacity	L	8	
Speed governor	Type	Electronic	

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Synchronous Generator

Manufacturer		Guericke
Model		GRK 45G4
Rated output		45
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage 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

Generating Set Installation Data

1800 r.p.m

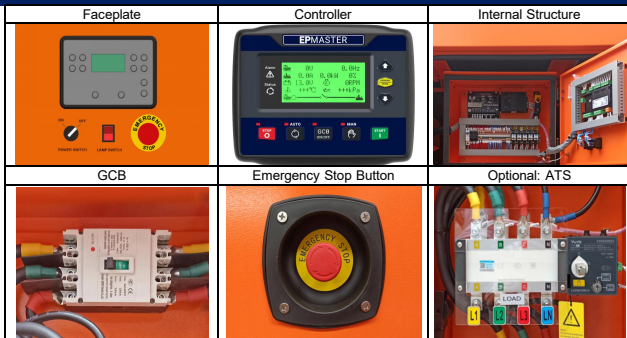
EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	°C	520
	°F	968
Exhaust gas flow	L/s	198.3
Maximum allowed back pressure	Kpa	6.7
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/s	75.0
	ft3/min(CFM)	158.8
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	4.5
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	
Standard Battery Charging System	A	35
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump, filters, etc.	L	13

Standard Control Panel -EPmaster EPM4

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It has the following:

- Emergency stop push button
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- Distribution: Direct output of the circuit breaker
- EPM4 & EPM4+ (cloud monitoring communication)
- control and protection centre



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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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



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- √ 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);

Over All Size

Length	mm	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity	L	115

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

- √ 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.

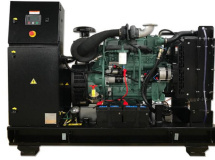
Over All Size

Length	mm	2350
Height	mm	1040
Width	mm	1730
Shipping Volume	m3	4.23
Dry Weight	Kg	1420
Fuel Tank Capacity	L	115



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XCW-60T6 powered by: 4DX23-82D

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

60Hz

Service		P.R.P	Standby
Rated output	kVA	60.0	66.0
Active power output**	kW	48	52.8
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

**Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	60	66
Manufacturer		FAW	
Model		4DX23-82D	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged & Intercooled	
Cylinders, number and arrangement		4 -L	
Bore*Stroke	mm	102X118	
Total Displacement	L	3.86	
Cooling system		Water	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17:1	
Specific fuel consumption(P.R.P)	L/h	15.35	
Specific oil consumption(at full load)	%	≤0.05	
Total coolant capacity	L	13	
Speed governor	Type	mechanical & Electronic	

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Rated output		48
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Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulaors		A.V.R (SX460)
Steady voltage precision		within±1.5% from no load to full loading with cosΦ=0.8-1.0

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Generating Set Installation Data

1800 r.p.m

EXHAUST SYSTEM

Exhaust Gas Temperature at full load	°C	470
	°F	878
Exhaust gas flow	L/s	198.3
Maximum allowed back pressure	Kpa	6.7

AIR REQUIREMENT

Air requirement for combustion at 100% load/rated speed	L/s	80.0
	ft3/min(CFM)	169.4

ELECTRIC STARTING SYSTEM

Starting motor output	kw	4.5
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	
Standard Battery Charging System	A	35
Auxiliary voltage	V	24

LUBRICATION SYSTEM

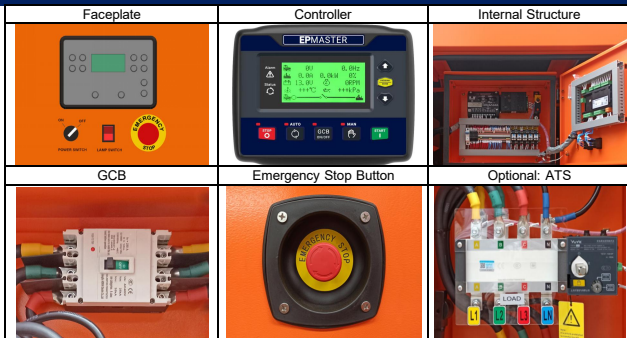
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	Residential silencer	
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	Expansion tank for coolant water	

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- √ 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);

Over All Size

Length	mm	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity	L	120

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

- √ 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.

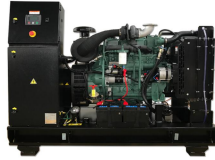
Over All Size

Length	mm	2350
Height	mm	1040
Width	mm	1730
Shipping Volume	m3	4.23
Dry Weight	Kg	1420
Fuel Tank Capacity	L	120



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DESIGN SPECIFICATIONS

- √ High quality, reliable, long life and complete power unit.
- √ 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, soundproof canopy and mobile units

XCW-69T6 powered by: 4DX23-90D

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

60Hz

Service		P.R.P	Standby
Rated output	kVA	69.0	76.0
Active power output※	kW	55	60.5
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	65	72
Manufacturer		FAW	
Model		4DX23-90D	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged & Intercooled	
Cylinders, number and arrangement		4 -L	
Bore×Stroke	mm	102X118	
Total Displacement	L	3.86	
Cooling system		Water	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17:1	
Specific fuel consumption(P.R.P)	L/h	16.3	
Specific oil consumption(at full load)	L/h	≤0.05	
Total coolant capacity	L	13	
Speed governor	Type	Electronic	

① 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 permissible 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 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 55G4
Rated output		55
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage 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

Generating Set Installation Data

1800 r.p.m

EXHAUST SYSTEM

Exhaust Gas Temperature at full load	°C	500
	°F	932
Exhaust gas flow	L/s	201.6
Maximum allowed back pressure	Kpa	6.7

AIR REQUIREMENT

Air requirement for combustion at 100% load/rated speed	L/s	78.3
	ft3/min(CFM)	165.8

ELECTRIC STARTING SYSTEM

Starting motor output	kw	4.5
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	
Standard Battery Charging System	A	35
Auxiliary voltage	V	24

LUBRICATION SYSTEM

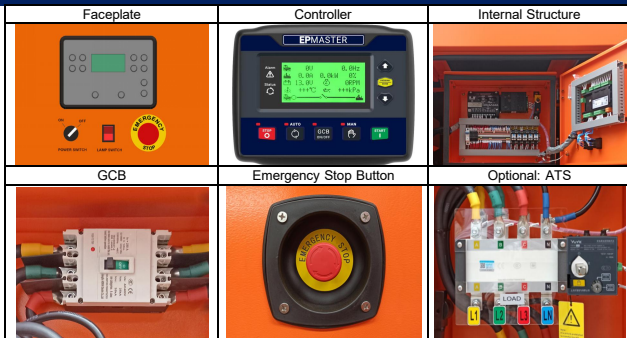
Lube oil system including sump, filters, etc.	L	8
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Standard Control Panel -EPmaster EPM4

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- Distribution: Direct output of the circuit breaker
- EPM4 & EPM4+ (cloud monitoring communication)
- control and protection centre



EPmaster EPM4

It has a digital LCD screen, which provides easy reading of the information regarding the Engine, Alternator, 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.

<p>• READINGS that can be made:</p> <p>Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start</p> <p>Alternator: voltages between phases and between phases and neutral/frequency/phase sequence</p> <p>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</p>	<p>•Protection of the engine and alternator, with the ALARMS activated:</p> <p>Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level.</p> <p>Alternator: low and high voltage/low and high frequency/overload /short-circuit/</p> <p>Mains: over and under voltage and loss of phase</p> <p>•Control of the set:</p> <p>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</p>	<p>•Other characteristics:</p> <p>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). Maximum 99 event logs can be memorized.</p> <p>With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.</p> <p>Equipped with CANBUS port and can communicate with J1939 engine. 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</p> <p>RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.</p> <p>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 port.</p>
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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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 govermor	
	Sender WT	
	Sender OP	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grouting rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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



1900*910*1370

Over All Size

Length	mm	1900
Height	mm	910
Width	mm	1370
Shipping Volume	m3	2.37
Dry Weight	Kg	950
Fuel Tank Capacity	L	130

√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;

√ Dial 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	2520
Height	mm	1030
Width	mm	1430
Shipping Volume	m3	3.71
Dry Weight	Kg	1250
Fuel Tank Capacity	L	130

√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.

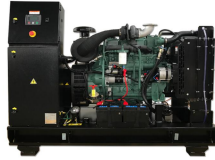
√Emergency stop push button outside of canopy.

√Easy maintenance and operation.



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DESIGN SPECIFICATIONS

- √ High quality, reliable, long life and complete power unit.
- √ 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, soundproof canopy and mobile units

XCW-80T6 powered by: 4110/125Z-11D

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

60Hz

Service		P.R.P	Standby
Rated output	kVA	80.0	88.0
Active power output※	kW	64	70.4
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	80	88
Manufacturer		FAW	
Model		4110/125Z-11D	
4 stroke Diesel Engine - Injection type			
Aspiration type		Turbocharged & Intercooled	
Cylinders, number and arrangement		4 -L	
Bore×Stroke	mm	110X125	
Total Displacement	L	4.75	
Cooling system		Water-cooled	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17:1	
Specific fuel consumption(P.R.P)	L/h	20.56	
Specific oil consumption(at full load)	%	≤0.08	
Total coolant capacity	L	14	
Speed governor	Type	Electronic	

① 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 permissible 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 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 64G4
Rated output		64
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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		

Generating Set Installation Data

1800 r.p.m

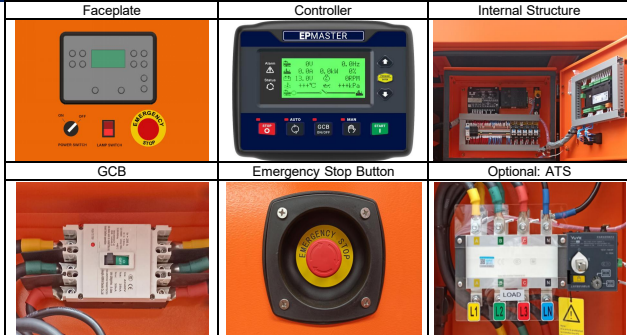
EXHAUST SYSTEM			
Exhaust Gas Temperature at full load	°C		470
	°F		878
Exhaust gas flow	L/s		266.6
Maximum allowed back pressure	Kpa		6.7
AIR REQUIREMENT			
Air requirement for combustion at 100% load/rated speed	L/s		106.6
	ft3/min(CFM)		225.7
ELECTRIC STARTING SYSTEM			
Starting motor output	kw		5
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA		
Standard Battery Charging System	A		45
Auxiliary voltage	V		24
LUBRICATION SYSTEM			
Lube oil system including sump, filters, etc.	L		14

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- 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, Alternator, 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.

<p>• READINGS that can be made:</p> <p>Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start</p> <p>Alternator: voltages between phases and between phases and neutral/frequency/phase sequence</p> <p>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</p>	<p>•Protection of the engine and alternator, with the ALARMS activated:</p> <p>Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level.</p> <p>Alternator: low and high voltage/low and high frequency/overload /short-circuit/</p> <p>Mains: over and under voltage and loss of phase</p>	<p>•Other characteristics:</p> <p>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). Maximum 99 event logs can be memorized.</p> <p>With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.</p> <p>Equipped with CANBUS port and can communicate with J1939 engine. 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</p> <p>RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.</p> <p>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 port.</p>
<p>•Control of the set:</p> <p>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</p>		

Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	Trailer	
	Residential silencer	
	Electric engine fuel heater	
	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.
- √ 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	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity	L	165

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

- √ 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

Length	mm	2350
Height	mm	1040
Width	mm	1730
Shipping Volume	m3	4.23
Dry Weight	Kg	1420
Fuel Tank Capacity	L	165



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XCW-106T6 powered by: CA4F2-14D

DESIGN SPECIFICATIONS

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

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	101	110
Manufacturer		FAW	
Model		CA4F2-14D	
4 stroke Diesel Engine - Injection type			
Aspiration type		Turbocharged & Intercooled	
Cylinders, number and arrangement		4-L	
Bore×Stroke	mm	110X125	
Total Displacement	L	4.75	
Cooling system		Water-cooled	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17:1	
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	

① 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 permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

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Synchronous Generator

Manufacturer		Guericke
Model		GRK 85G4
Rated output		85
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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

Generating Set Installation Data

1800 r.p.m

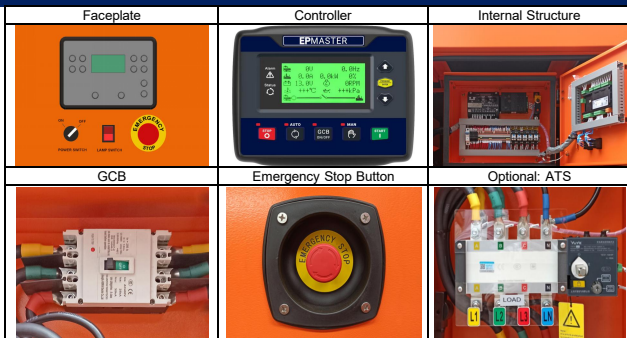
EXHAUST SYSTEM			
Exhaust Gas Temperature at full load	°C	460	
	°F	860	
Exhaust gas flow	L/s	318.3	
Maximum allowed back pressure	Kpa	6.7	
AIR REQUIREMENT			
Air requirement for combustion at 100% load/rated speed	L/s	125.0	
	ft3/min(CFM)	264.7	
ELECTRIC STARTING SYSTEM			
Starting motor output	kw	5.5	
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA		
Standard Battery Charging System	A	45	
Auxiliary voltage	V	24	
LUBRICATION SYSTEM			
Lube oil system including sump, filters, etc.	L	14	

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- 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, Alternator, 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.

<p>• READINGS that can be made:</p> <p>Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start</p> <p>Alternator: voltages between phases and between phases and neutral/frequency/phase sequence</p> <p>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</p>	<p>•Protection of the engine and alternator, with the ALARMS activated:</p> <p>Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level.</p> <p>Alternator: low and high voltage/low and high frequency/overload /short-circuit/</p> <p>Mains: over and under voltage and loss of phase</p> <p>•Control of the set:</p> <p>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</p>	<p>•Other characteristics:</p> <p>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). Maximum 99 event logs can be memorized.</p> <p>With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.</p> <p>Equipped with CANBUS port and can communicate with J1939 engine. 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</p> <p>RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.</p> <p>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 port.</p>
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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	Trailer	
	Residential silencer	
	Electric engine fuel heater	
	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.
- √ 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	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity	L	200

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

- √ 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

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



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XCW-119T6 powered by: **CA6DF2D-16D**

DESIGN SPECIFICATIONS

- √ High quality, reliable, long life and complete power unit.
- √ 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, 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	119.0	131.0
Active power output※	kW	95	104.5
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	116	128
Manufacturer		FAW	
Model		CA6DF2D-16D	
4 stroke Diesel Engine - Injection type			
Aspiration type		Turbocharged	
Cylinders, number and arrangement		6 -L	
Bore×Stroke	mm	110X125	
Total Displacement	L	6.56	
Cooling system		Water-cooled	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17.5:1	
Specific fuel consumption(P.R.P)	L/h	28.71	
Specific oil consumption(at full load)	%	≤0.09	
Total coolant capacity	L	10	
Speed governor	Type	mechanical & Electronical	

① 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 permissible 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 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 95G4
Rated output		95
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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

Generating Set Installation Data

1800 r.p.m

EXHAUST SYSTEM

Exhaust Gas Temperature at full load	°C	46
	°F	114.8
Exhaust gas flow	L/s	366.6
Maximum allowed back pressure	Kpa	6.7

AIR REQUIREMENT

Air requirement for combustion at 100% load/rated speed	L/s	148.3
	ft ³ /min(CFM)	314.0

ELECTRIC STARTING SYSTEM

Starting motor output	kw	6
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	
Standard Battery Charging System	A	55
Auxiliary voltage	V	24

LUBRICATION SYSTEM

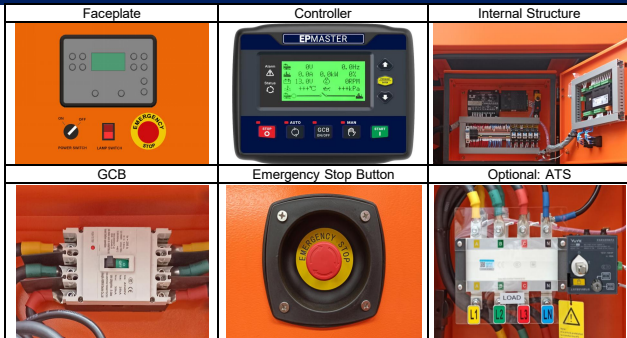
Lube oil system including sump, filters, etc.	L	24
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Standard Control Panel -EPmaster EPM4

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- 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, Alternator, 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.

<p>• READINGS that can be made:</p> <p>Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start</p> <p>Alternator: voltages between phases and between phases and neutral/frequency/phase sequence</p> <p>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</p>	<p>•Protection of the engine and alternator, with the ALARMS activated:</p> <p>Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level.</p> <p>Alternator: low and high voltage/low and high frequency/overload /short-circuit/</p> <p>Mains: over and under voltage and loss of phase</p> <p>•Control of the set:</p> <p>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</p>	<p>•Other characteristics:</p> <p>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). Maximum 99 event logs can be memorized.</p> <p>With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.</p> <p>Equipped with CANBUS port and can communicate with J1939 engine. 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</p> <p>RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.</p> <p>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 port.</p>
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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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.
- √ 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	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity	L	165

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

- √ 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

Length	mm	2350
Height	mm	1040
Width	mm	1730
Shipping Volume	m3	4.23
Dry Weight	Kg	1420
Fuel Tank Capacity	L	165



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XCW-138T6 powered by: CA6DF2-18D

DESIGN SPECIFICATIONS

- √ High quality, reliable, long life and complete power unit.
- √ 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, 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	138.0	151.0
Active power output※	kW	110	121
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance 1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	132	145
Manufacturer		FAW	
Model		CA6DF2-18D	
4 stroke Diesel Engine - Injection type			
Aspiration type		Turbocharged	
Cylinders, number and arrangement		6 -L	
Bore×Stroke	mm	110X125	
Total Displacement	L	7.13 L	
Cooling system		Water-cooled	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17.5:1	
Specific fuel consumption(P.R.P)	L/h	54.74	
Specific oil consumption(at full load)	%	≤0.07	
Total coolant capacity	L	10	
Speed governor	Type	mechanical & Electronical	

① 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 permissible 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 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 110G4
Rated output		110
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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

Generating Set Installation Data 1800 r.p.m

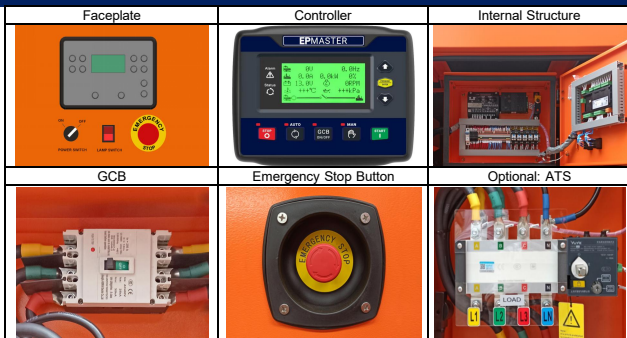
EXHAUST SYSTEM			
Exhaust Gas Temperature at full load	°C	450	
	°F	842	
Exhaust gas flow	L/s	411.6	
Maximum allowed back pressure	Kpa	6.3	
AIR REQUIREMENT			
Air requirement for combustion at 100% load/rated speed	L/s	163.3	
	ft3/min(CFM)	345.8	
ELECTRIC STARTING SYSTEM			
Starting motor output	kw	6	
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA		
Standard Battery Charging System	A	55	
Auxiliary voltage	V	24	
LUBRICATION SYSTEM			
Lube oil system including sump, filters, etc.	L	24	

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- Distribution: Direct output of the circuit breaker
- EPM4 & EPM4+ (cloud monitoring communication)
- control and protection centre



EPmaster EPM4

It has a digital LCD screen, which provides easy reading of the information regarding the Engine, Alternator, 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.

<p>• READINGS that can be made:</p> <p>Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start</p> <p>Alternator: voltages between phases and between phases and neutral/frequency/phase sequence</p> <p>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</p>	<p>•Protection of the engine and alternator, with the ALARMS activated:</p> <p>Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level.</p> <p>Alternator: low and high voltage/low and high frequency/overload /short-circuit/</p> <p>Mains: over and under voltage and loss of phase</p> <p>•Control of the set:</p> <p>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</p>	<p>•Other characteristics:</p> <p>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). Maximum 99 event logs can be memorized.</p> <p>With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.</p> <p>Equipped with CANBUS port and can communicate with J1939 engine. 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</p> <p>RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.</p> <p>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 port.</p>
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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grouting rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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.
- √ 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	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity	L	165

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

- √ 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

Length	mm	2350
Height	mm	1040
Width	mm	1730
Shipping Volume	m3	4.23
Dry Weight	Kg	1420
Fuel Tank Capacity	L	165



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DESIGN SPECIFICATIONS

- √ High quality, reliable, long life and complete power unit.
- √ 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, soundproof canopy and mobile units

XCW-162T6 powered by: CA6DF2-21D

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

60Hz

Service		P.R.P	Standby
Rated output	kVA	162.0	178.0
Active power output※	kW	130	142.6
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	132	145
Manufacturer		FAW	
Model		CA6DF2-21D	
4 stroke Diesel Engine - Injection type			
Aspiration type		Turbocharged	
Cylinders, number and arrangement		6 - L	
Bore×Stroke	mm	110X125	
Total Displacement	L	7.13 L	
Cooling system		Water-cooled	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17.5:1	
Specific fuel consumption(P.R.P)	L/h	38.11	
Specific oil consumption(at full load)	L/h	≤0.08	
Total coolant capacity	L	10	
Speed governor	Type	Electronical	

① 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 permissible 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 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 130G4
Rated output		130
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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

Generating Set Installation Data

1800 r.p.m

EXHAUST SYSTEM

Exhaust Gas Temperature at full load	°C	460
	°F	860
Exhaust gas flow	L/s	486.6
Maximum allowed back pressure	Kpa	6.7

AIR REQUIREMENT

Air requirement for combustion at 100% load/rated speed	L/s	198.3
	ft3/min(CFM)	419.9

ELECTRIC STARTING SYSTEM

Starting motor output	kw	6
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	
Standard Battery Charging System	A	55
Auxiliary voltage	V	24

LUBRICATION SYSTEM

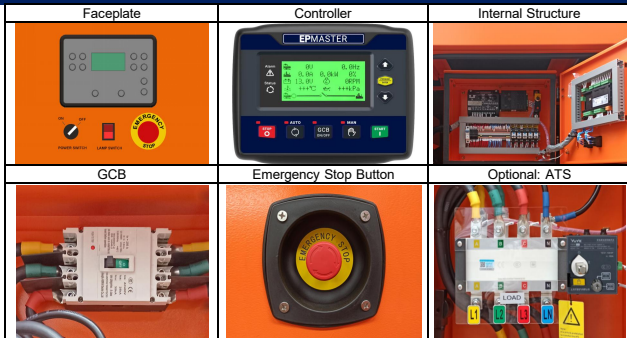
Lube oil system including sump, filters, etc.	L	24
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Standard Control Panel -EPmaster EPM4

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- Distribution: Direct output of the circuit breaker
- EPM4 & EPM4+ (cloud monitoring communication)
- control and protection centre



EPmaster EPM4

It has a digital LCD screen, which provides easy reading of the information regarding the Engine, Alternator, 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: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start Alternator: voltages between phases and between phases and neutral/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-L3)/phase sequence	•Protection of the engine and alternator, with the ALARMS activated: Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level. Alternator: 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: 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). Maximum 99 event logs can be memorized. With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out. Equipped with CANBUS port and can communicate with J1939 engine. 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 port.
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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	Trailer	
	Residential silencer	
	Electric engine fuel heater	
	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.
- √ 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	2260
Height	mm	830
Width	mm	1540
Shipping Volume	m3	2.89
Dry Weight	Kg	1150
Fuel Tank Capacity	L	305

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.

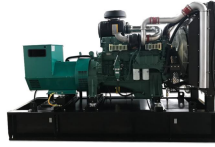
Over All Size

Length	mm	3300
Height	mm	1460
Width	mm	2100
Shipping Volume	m3	10.12
Dry Weight	Kg	3460
Fuel Tank Capacity	L	305



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DESIGN SPECIFICATIONS

- √ High quality, reliable, long life and complete power unit.
- √ 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, soundproof canopy and mobile units

XCW-206T6 powered by: CA6DL1-27D

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

60Hz

Service		P.R.P	Standby
Rated output	kVA	206.0	227.0
Active power output※	kW	165	181.5
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	195	215
Manufacturer		FAW	
Model		CA6DL1-27D	
4 stroke Diesel Engine - Injection type			
Aspiration type		Turbocharged & Intercooled	
Cylinders, number and arrangement		6 -L	
Bore×Stroke	mm	110X135	
Total Displacement	L	7.7	
Cooling system		Water-cooled	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17.5:1	
Specific fuel consumption(P.R.P)	L/h	47.8	
Specific oil consumption(at full load)	%	≤0.10	
Total coolant capacity	L	10	
Speed governor	Type	Electronical	

① 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 permissible 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 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 165G4
Rated output		165
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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		

Generating Set Installation Data

1800 r.p.m

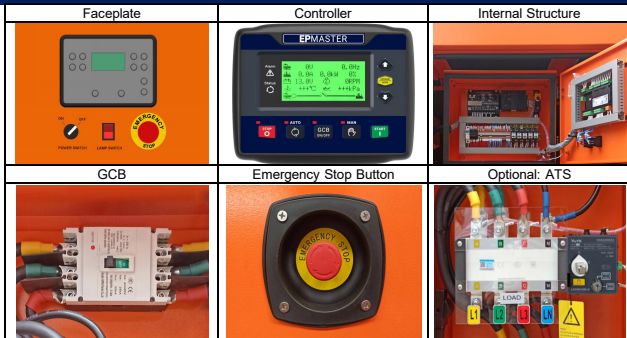
EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	°C	450
	°F	842
Exhaust gas flow	L/s	578.3
Maximum allowed back pressure	Kpa	6.7
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/s	248.3
	ft3/min(CFM)	525.8
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	6
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	
Standard Battery Charging System	A	75
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump, filters, etc.	L	28

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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- Distribution: Direct output of the circuit breaker
- EPM4 & EPM4+ (cloud monitoring communication)
- control and protection centre



EPmaster EPM4

It has a digital LCD screen, which provides easy reading of the information regarding the Engine, Alternator, 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.

<p>• READINGS that can be made:</p> <p>Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/battery voltage/battery alternator voltage/operating hours/number of start</p> <p>Alternator: voltages between phases and between phases and neutral/frequency/phase sequence</p> <p>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</p>	<p>•Protection of the engine and alternator, with the ALARMS activated:</p> <p>Engine: low oil pressure/high coolant temperature/low and high battery Voltage./failure of the alternator to charge batteries /Low fuel level.</p> <p>Alternator: low and high voltage/low and high frequency/overload /short-circuit/</p> <p>Mains: over and under voltage and loss of phase</p>	<p>•Other characteristics:</p> <p>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). Maximum 99 event logs can be memorized.</p> <p>With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.</p> <p>Equipped with CANBUS port and can communicate with J1939 engine. 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</p> <p>RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.</p> <p>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 port.</p>
<p>•Control of the set:</p> <p>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</p>		

Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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.
- √ 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	2380
Height	mm	1040
Width	mm	1630
Shipping Volume	m3	4.03
Dry Weight	Kg	1400
Fuel Tank Capacity	L	165

Dimensions(Silent Type) With Standard Fuel Tank



2350*1040*1730

- √ 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

Length	mm	2350
Height	mm	1040
Width	mm	1730
Shipping Volume	m3	4.23
Dry Weight	Kg	1420
Fuel Tank Capacity	L	165



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- √ 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, soundproof canopy and mobile units

XCW-250T6 powered by: CA6DL2-32D

Diesel Genset Features

P.F=0.8 3Phase

Generating Set Performance

60Hz

Service		P.R.P	Standby
Rated output	kVA	250.0	275.0
Active power output※	kW	200	220
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	

Performance 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°C(77°F) approx.4% per 10°C(50°F).

※Considering cos phi=0.8

Prime Mover Performance

1800 r.p.m

SERVICE		P.R.P	Standby
Rated output	KW	195	215
Manufacturer		FAW	
Model		CA6DL2-32D	
4 stroke Diesel Engine - Injection type			
Aspiration type		Turbocharged & Intercooled	
Cylinders, number and arrangement		6 -L	
Bore*Stroke	mm	112X145	
Total Displacement	L	8.57	
Cooling system		Water-cooled	
Lube oil specifications		SAE 15 W 40	
Compression ratio		17.5:1	
Specific fuel consumption(P.R.P)	L/h	57.04	
Specific oil consumption(at full load)	%		
Total coolant capacity	L	12	
Speed governor	Type	Electronical	

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Synchronous Generator

Manufacturer		Guericke
Model		GRK 200G4
Rated output		200
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage Regulators		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		

Generating Set Installation Data

1800 r.p.m

EXHAUST SYSTEM

Exhaust Gas Temperature at full load	°C	450
	°F	842
Exhaust gas flow	L/s	690.0
Maximum allowed back pressure	Kpa	6.7

AIR REQUIREMENT

Air requirement for combustion at 100% load/rated speed	L/s	296.6
	ft3/min(CFM)	628.1

ELECTRIC STARTING SYSTEM

Starting motor output	kw	6
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	
Standard Battery Charging System	A	75
Auxiliary voltage	V	24

LUBRICATION SYSTEM

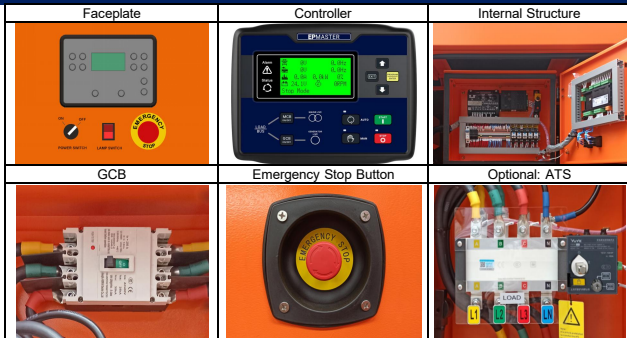
Lube oil system including sump, filters, etc.	L	28
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Standard Control Panel -EPmaster EPM6

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 EPM6. 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
- Protections:
 - Circuit breaker (preheating resist.) 2P (16 A)
 - Protection fuses for control module
- Voltage & speed trimmers
- Battery charger
- DC switch
- Working Lamp switch
- Distribution: Direct output of the circuit breaker
- EPM6 & EPM6+ (cloud monitoring communication)
- control and protection centre



EPmaster EPM6

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Standard Configuration & Option

Item	Standard	Option
Engine	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chawin 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	
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	Sender WT	
	Sender OP	
Alternator	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
Electrical system		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
Accessories	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grounding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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.

√ 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	2800
Height	mm	1020
Width	mm	1960
Shipping Volume	m3	5.60
Dry Weight	Kg	2200
Fuel Tank Capacity	L	456

Dimensions(Silent Type) With Standard Fuel Tank



3600*1430*2140

Over All Size

Length	mm	3600
Height	mm	1430
Width	mm	2140
Shipping Volume	m3	11.02
Dry Weight	Kg	2980
Fuel Tank Capacity	L	456

√ 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.



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VMW-450T6 Activado por D15B1



Especificaciones de diseño

- ✓ Alta calidad, fiabilidad, larga vida y unidad de potencia completa.
- ✓ Diseño compacto.
- ✓ Fácil arranque y posibilidad de mantenimiento.
- ✓ Cada grupo electrógeno está sujeto a un programa de pruebas completo que incluye pruebas de carga completa y prueba de verificación de todas las funciones de control y cierre de seguridad.
- ✓ Completamente diseñado con una amplia gama de opciones y accesorios: eléctricos, mecánicos, cabina insonorizada y unidades

Característica técnica de grupo electrógeno diésel

Capacidad de grupo electrógeno diésel		60Hz	
Servicio		P.R.P	Standby
Potencia Nominal	kVA	450	500
Potencia de salida activa	kW	360	400
Velocidad nominal	r.p.m	1800	
Voltaje disponible	V	380/220	
Factor de potencia nominal	V	480/277-460/265 - 440/254-416/240-240/139-220/127-208/120	

Los datos de Característica se refieren a las condiciones estándar de ISO 8528:+25 °C,100m ALT, humedad relativa 30%

Reducción de potencia ACC.Conforme a los valores de la norma DIN ISO 3046 : Por encima de 100m ALT aprox. 1% por 100m. Por encima de 25°C (77°F) aprox. 4% por 10°C (50°F).

※Considerando cos phi=0.8

Característica técnica de motor

Servicio		1800 r.p.m	
Potencia de salida nominal	KW	P.R.P	Standby
		405	551
Fabricante		VMAN	
Motor diésel de 4 tiempos - tipo de inyección		Directo	
Tipo de aspiración		Turbo charged & intercooled	
Cilindros, número y disposición		8-V	
Diámetro X Carrera	mm	128×142	
Total Desplazamiento	L	14.618	
Sistema de refrigeración		Refrigerado por agua	
Especificaciones del aceite lubricante		SAE 15 W 40	
Relación de compresión		14.6:1	
Consumo específico de combustible(P.R.P)	L/h	100.32	
Consumo de aceite (a pleno consumo)	%	≤0.5	
Capacidad Total de refrigerante	L	20	
Gobernador de velocidad	Tipo	Eléctrico	

①P.R.P. Primera Potencia - ISO 8528: Primera Potencia es la potencia máxima disponible durante una secuencia de potencia variable, lo cual puede funcionar durante un número ilimitado de horas al año, entre intervalos de mantenimiento establecidos.La salida de potencia media admisible durante un período de 24 horas no debe exceder el 80% de la primera potencia. 10% de sobrecarga disponible sólo para propósitos de gobernar.

②Potencia de emergencia -ISO 3046 Energía de parada del combustible :Potencia disponible para su uso a cargas variables durante un tiempo anual limitado (500h), dentro del siguiente máximo tiempo de funcionamiento limitado : 100% carga 25h por año, 90% carga 200h por año. No hay sobrecarga disponible. Aplicable en caso de falla en áreas principales de red eléctrica fiable.

Característica técnica de Alternador ※

Marca		Guericke
Modelo		GRK314G3
Poles	num	4
Conexiones bobinados(Estándar)		Star-serie
Aislamiento	class	H
Protección		IP23
Fase		3+N
Regulador de Voltaje		A.V.R (KR440)
Precisión de tensión constante		Dentro de ±1.5% desde sin carga hasta la carga completa con cosΦ=0.8-1.0

※Alternador utilizado por grupo electrógeno GTL cumplir con los requisitos de las siguientes normas:BS5000,VDE0530,NEMA MG1-32,IEC34,CA C22.2-100,AS1359

Datos de instalación de Grupo Electrónico

1800 r.p.m

Sistema de desplazamiento		1800 r.p.m	
Temperatura de los gases de escape a plena carga	°C	440-530 °C	
	°F		
Flujo de gases de escape	m³/h	4695-7615	
Contrapresión máxima permitida	Kpa	5	
Requisitos de aire			
Requisito de aire para combustión a 100% de carga/velocidad nominal	m³/h	2137-3077	
	ft3/min(CFM)		
Sistema eléctrico de arranque			
Potencia de motor de arranque	kw	7	
Capacidad mínima recomendada de batería @ 32°F (to 0°C)	CCA	2×200 Ah	
Sistema de carga de batería estándar	A	45	
Tensión auxiliar	V	24	
Sistema de aceite lubricante			
Sistema de aceite lubricante, incluyendo cárter de aceite, filtros,etc.	L	19-27 L	

Panel de Control Estándar -EPmaster EPM6

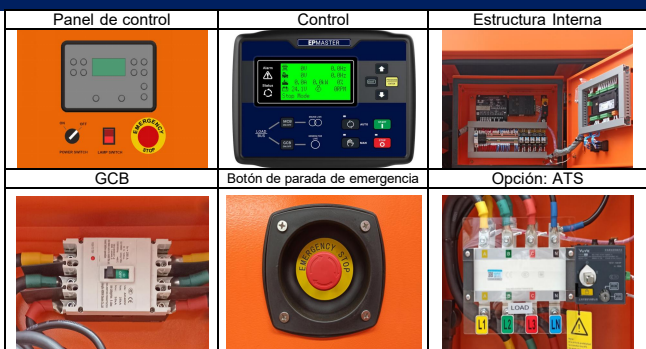
Panel de control de protección, distribución y automático, que pone en marcha el grupo electrógeno cuando detecta un fallo de red y lo detiene cuando se restablece la red con control EPMaster EPM6.

Cuenta con los siguientes:

- ① Botón de parada de emergencia
- ② Protección:
 - Interruptor (resistencia al precalentamiento.) 2P (16 A)
 - Fusibles de protección para el módulo de control
- ③ Trimmers de Voltaje&Velocidad
- ④ Cargador de batería
- ⑤ Interruptor DC
- ⑥ Interruptor de lámpara de trabajo
- ⑦ Distribution:Direct output of the circuit breaker

⑧ EPM6&EPM6+(Comunicación de

monitorización de nube 4G)Centro de control y



EPmaster EPM6

Cuenta con una pantalla LCD digital, que facilita la lectura de la información relativa al motor, alternador, red eléctrica y carga. El controlador cumple con todos los requisitos para las aplicaciones de fallo automático de red (AMF), incluyendo la comunicación remota y el control de internet, la configuración del usuario y la supervisión y protección completa del grupo electrógeno.

<p>•Lecturas que se pueden mirar:</p> <p>Motor: temperatura de enfriamiento/presión del aceite/velocidad/nivel de aceite/voltaje de la batería/voltaje AC de la batería/horas de trabajo/número de arranque</p> <p>Alternador: Voltaje entre fases y entre fases y secuencia neutra/frecuencia/fase</p> <p>Red: frecuencia/voltaje entre fases y, entre fases y neutro (L1-N, L2-N, L3-N)/ voltaje entre fases y (L1-L2, L2-L3, L1-L3)/ secuencia de fase</p>	<p>•Protección del motor y alternador, con las alarmas activadas:</p> <p>Motor: Baja presión de aceite/alta temperatura del refrigerante/ baja y alta tensión de la batería/ fallo del alternador para cargar las baterías/bajo nivel de combustible.</p> <p>Alternador: Baja y alta tensión/baja y alta frecuencia/sobrecarga/cortocircuito /</p> <p>Red: sobretensión y pérdida de fase</p> <p>•Control de generador:</p> <p>Arranque y parada automáticos de la unidad en caso de fallo de alimentación de red y fallo de recuperación, respectivamente. También puede controlar el interruptor de transferencia manual y automáticamente</p>	<p>•Otras características:</p> <p>Registro de eventos, reloj en tiempo real, generador de arranque y parada programado (se puede configurar como Start genset una vez al día/semana/mes ya sea con carga o no). Se pueden memorizar un máximo de 99 registros de eventos.</p> <p>Con función de mantenimiento. Los tipos (fecha o tiempo de ejecución) pueden ser opcionales y las acciones (nunca, advertencia o apagado) se pueden establecer cuando el tiempo de mantenimiento se agota.</p> <p>Equipado con puerto CANBUS y puede comunicarse con J1939 engine. No sólo puede controlar los datos de uso frecuente (como temperatura de agua, presión de aceite, velocidad, consumo de combustible etc) de la máquina ECU, sino también el control de arranque, apagado, aumento de velocidad y caída de velocidad a través del puerto CANBUS</p> <p>La interfaz de comunicación RS485 permite "tres funciones remotas" control remoto, medición remota y comunicación remota según el protocolo MODBUS</p> <p>Ajuste de parámetros: los parámetros pueden ser modificados y almacenados en la memoria FLASH interna y no se pueden perder, incluso en caso de corte de energía; La mayoría de ellos se pueden ajustar usando el panel frontal del controlador y también se pueden modificar usando PC vía puerto USB o RS485.</p>
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Configuración estándar y opción

Ítem	Estándar	Opción
Motor	Filtro de aire estándar	Filtro de aire de tipo pesado
	Filtro de combustible estándar	Válvula de cierre de entrada de aire tipo chalwin
	Filtro de aceite estándar	Calentador para aire de admisión
	Sensor de nivel de refrigerante	Sensor de temperatura del aceite
	compensador de gas de escape	Calentador para diésel
	48V Sistema eléctrico	Calentador de agua del motor
	Radiador con ventilador	
	Gobernador electrónico	
	Sender WT	
	Sender OP	
	Componentes calientes y protectores del radiador	
	Componentes móviles	
Alternador	Auto-excitada y autorregulada	Filtro de aire
	Grado de protección IP23	IP44/IP54/IP55
	Aislamiento clase H	Espacio calentador/calentador anti-condens.
		Protección del medio ambiente
		Detectores de temperatura
		Operación paralela
Sistema eléctrico	Interruptor de separación de batería	Tablero de distribución con enchufe kit y barras eléctrica
	Interruptor de 3 polos	Interruptor de 4 polos
	Alarma para abrir puerta	Ajustable ELCB (Falla de la tierra)
	Cargador de batería 220-240V	barra que conecta a tierra
		ATS
Accesorios	Filtro de separador de agua	Kit de válvulas de desvío para tanque
	Alarma de bajo nivel de combustible	Kit de automático recarga de combustible
	Bomba de extracción de aceite	Tráiler
	Kit de herramientas para el mantenimiento	Silenciador residencial
	Voltaje/Velocidad potenciómetro	Calentador para combustible del motor
	Tanque Sin expansión	Tanque de expansión para agua refrigerante

Datos de transporte del grupo electrógeno

Dimensiones(Tipo de Abierto) Con depósito de combustible estándar



Sobre todo el tamaño

Largo	mm	
Altura	mm	
Ancho	mm	

Volumen de envío	m3	
Peso neto	Kg	
Capacidad del depósito de combustible	L	

- ✓ El conjunto de grupo electrógeno está montada sobre una pieza fabricada de alta resistencia
- ✓ Las almohadillas antivibratorias se fijan entre motor/ soportes de alternador y el marco de base
- ✓ El tanque de combustible está integrado en el marco de base
- ✓ El grupo electrógeno se puede levantar o empujar cuidadosamente / empujado por marco de base
- ✓ Indicador de combustible tipo dial y tapón de drenaje en tanque de combustible
- ✓ Forklift pockets está dentro de marco de base (hasta 500kVA)

Dimensiones(Tipo de insonorizado) Con depósito de combustible estándar



Sobre todo el tamaño

Largo	mm	3000
Altura	mm	2000
Ancho	mm	1410

Volumen de envío	m3	8.46
Peso neto	Kg	
Capacidad del depósito de combustible	L	800

- ✓ Todas las partes de la cabina están diseñadas con principio de módulo
- ✓ Sin piezas de soldadura
- ✓ Todas las partes de cabina insonorizada están pintadas por electrostática con polvo de poliéster
- ✓ El frente y la espalda cuentan con puertas
- ✓ Sistema de escape del motor con aislamiento térmico
- ✓ Botón de parada de emergencia sobre superficie de cabina insonorizada
- ✓ Fácil mantenimiento y operación



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