

DCW-131T6 powered by:



DESIGN SPECIFICATIONS

VHigh quality, reliable, long life and complete power unit.

√compact design. √Easy start and maintenance possibility.

VEvery generating set is subject to a comprehensive test programme which includes full load testing and checking and proving of all control and safety shut down functions testing

testing. √Fully engineered with a wide range of options and accessories:Electrical,mechanical, soundproof cancey and mobile units

6BTA5.9-G2 🧲

Diesel Genset Features		P.F=0.8 3Phase	
Generating Set Performance		60Hz	
Service		Prime Power	Standby Power
Rated output	kVA	131	145
Active power output %	kW	105	116
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	

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

Power reduction acc.to DIN ISO 3046 Standard values: Above 100m ALT approx.1% per 100m. Above $25 \odot (77 \text{F})$ approx.4% per $10 \odot (50 \text{F})$.

Prime Mover Performance		1800 r.p.m	
SERVICE		Prime Power	Standby Power
Rated output	KW	120	132
Manufacturer		Cun	nmins
Model		6BTA5.9-G2	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged & Aftercooled	
Cylinders,number and arrangement		6 -L	
Bore×Stroke	mm	102	2X120
Total Displacement	L	5	5.9
Cooling system		W	ater
_ube oil specifications		SAE 1	15 W 40
Compression ratio		17	7.3:1
Specific fuel consumption(P.R.P)	L/h	31	
Specific oil consumption(at full load)	%	<	0.1
Total coolant capacity	L	2	5.9
Speed governor	Туре	Elec	stronic

(I) 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.

@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		1800 r.p.m
Manufacturer		Guericke
Model		GRK100G4
Rated output	KW	110
Poles	num	4
Winding Conections (standard)		Star-serie
Insulation	class	Н
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Votage Regulaors		A.V.R (SX460)
Steady voltage precision		within±1.5% from no load to full loading with cosΦ=0.8-1.0

#Alternator used by GTL Gensets meet the requirements of following Standard:BS5000,VDE0530,NEMA MG1-32,IEC34,CA C22.2-100,AS1359

Generationg Set Installation Data		1800 r.p.m	
EXHAUST SYSTEM			
Exhaust Gas Temperature at full load	°C	540	
Exhaust Gas Temperature at full load	°F	1004	
Exhaust gas flow	L/s	381	
Maximum allowed back pressure	Кра	10	
AIR REQUIREMENT			
Air requirement for combustion at 100% load/rated speed	L/s	140	
All requirement for compusiton at 100% load/rated speed	ft3/min(CFM)	296.5	
ELECTRIC STARTING SYSTEM			
Starting motor output	kw	6	
Minimum Recommended Battery Capacity	CCA	400	
Auxiliary voltage	V	24	
LUBRICATION SYSTEM			
Lube oil system including sump,filters,etc.	L	16.4	

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:

Demographic 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

thas a digital LCD screen, which provides easy reading of the information regarding the Engine, Alterator, Mains and Charging. The controller meets all requirements for Auto Mains Failure (AMF) applications including remote communication and internet control, user configuration and complete genset monitoring and protection. Protection of the engine and alternator, with the ALARMS **READINGS** that can be made: Other characteristics: activated: Event log, real-time clock, scheduled start & stop generator can be set as start genset once a day/week/month whether with load or not). Maximu n 99 event logs can be memorized. Engine : cooling temperature/oil pressure/revolution speed (rpm)/fuel level attery voltage/battery alternator voltage/operating hours/number of start <u>Engine:low oil pressure/high coolant temperature/low and high battery Volta</u> ge./failure of the alternator to charge batteries/Low fuel level. With maintenance function. Types (date or running time) can be optional and actions never, warning, or shutdown) can be set when maintenance time out. Alterator : voltages between phases and between phases and neutral/frequ Alterator: / ow and high voltage/low and high frequency/overload /shortncy/phase sequence ircuit/ Mains: frequency/voltages between phases and between phases and neutr al (L1-N, L2-N,L3-N)/voltages between Equipped with CANBUS port and can communicate with J1939 enginet. Not only can Mains: over and under voltage and loss of phase Equipped with Orly-used data (such as water monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, but a so control starting up, shutdown, raising speed and speed droop via CANBUS port phases and (L1-L2, L2-L3, L1-L3)/phase sequence Load: Current(Ia,Ib,Ic)and each phase and total active power(kw)/reactive power(kvar)/apparent power(kva)/power factor/accumulated generator pow Control of the set: RS485 communication interface enables "Three remote" functions (remote control, re er(kwh,kvah,kvah)/output percentage with load (%) note measuring and remote communication) according to MODBUS protocol STARTS and STOPS the set AUTOMATICALLY when mains failure is detect ed and when it is restored, respectively.It can also operate MANUALLY and A Parameter setting: parameters can be modified and stored in internal FLASH memory and cannot be lost even in case of power outage; most of them can be adjusted using front panel of the controller and also can be modified using PC via USB or RS485 por uto Transfer Switch control

tem	Standard	Option
	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chalwin type
	Standard oil filter	Intake air heater
	Low coolant level sensor	Oil temperature sensor
	Exhaust gases compensator	Diesel-powered heater
agino	24V Electrical system	Engine water heater
ngine	Radiator with bloweing fan	
	Electronic governor	
	Sender WT	
	Sender OP	
	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
Iternator	Insulation H class	Space heater/anti-condensation heater
lemator		Environment protection
		Temperature detectors
		IP44/IP54/IP55 Space heater/anti-condensation heater Environment protection Temperature detectors Parallel operation Distribution board with sockets kit and power busbar 4 poles circuit breaker Adjustable ELCB (Earth Fault) Grouding rod
	Battery isolator switch	Distribution board with sockets kit and power busbar
	3 poles circuit breaker	4 poles circuit breaker
lectrical system	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
ccessories	Oil extraction pump	Trailer
	Tool kit for maintenance	Residential silencer
	Voltage/Speed potentiometer	Electric engine fuel heater
		Expansion tank for coolant water

Generating Set transport data

Dimensions(Open Skid Type) With Standard Fuel Tank



 ${}^{\sqrt{}}$ The complete gen-set is mounted on whole on a heavy-duty fabricated,steel base frame. ${}^{\sqrt{}}$ Antivibration pads are fixed between the engine/ alternator feet and the base frame ;

√ Base frame design incorporates an integral fuel tank.

V The generating set can be lifted or carefully pushed / pulled by the base frame;

VDial 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



VAll 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.





2130

860

1450

2 66

1350

Height
Shipping Volume

Over All Size

Width

Dry Weight

uel Tank (

Over All Size			
Length	mm	3000	
Width	mm	1150	
Height	mm	1900	
Shipping Volume	m3	6.56	
Dry Weight	Kg	1780	
Fuel Tank Capacity		250	

mm

mm

mm

m3

Kg

