

# DCW-150T5 powered by:



#### **DESIGN SPECIFICATIONS**

 $\sqrt{\text{High}}$  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

vFully engineered with a wide range of options and accessories:Electrical,mechanical, soundproof canopy and mobile units

# QSB5.9-G33 🗲

Diesel Genset Features		P.F=0.8 3Phase	
Generating Set Performance		50Hz	
Service		Prime Power	Standby Power
Rated output	kVA	150	165
Active power output %	kW	120	132
Rated Speed	r.p.m	1500	
Standard Voltage	V	400/230	
Voltage available	V	380/220	- 415/240

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°C (77°F) approx.4% per 10°C (50°F).

rime Mover Performance		1500 r.p.m	
SERVICE		Prime Power	Standby Power
Rated output	KW	159	175
Manufacturer		Cun	nmins
Model		QSB5.9-G33	
4 stroke Diesel Engine - Injection type		Di	rect
Aspiration type		Turbocharged and Charge Air Cooled	
Cylinders,number and arrangement		6	-L
Bore×Stroke	mm	102	X120
Total Displacement	L	5	5.9
Cooling system		W	ater
Lube oil specifications		SAE 1	5 W 40
Compression ratio		17	.3:1
Specific fuel consumption(P.R.P)	L/h	3	7.9
Specific oil consumption(at full load)	%	<	0.1
Total coolant capacity	L	3	5.3
Speed governor	Туре	High Pressure Common Rail System (ECM)	

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

@Max Standby power -ISO 3046 Fuel Stop power: Power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year, 90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Synchronous Generator		1500 r.p.m
Manufacturer		Guericke
Model		GRK120G4
Rated output	KW	120
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)
vave distortion		No load < 1.5% Non-distortion balanced linear load < 5.0%

Generationg Set Installation Data		1500 r.p.m
EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	°C	539
Exhaust Gas Temperature at full load	°F	1002.2
Exhaust gas flow	L/s	204
Maximum allowed back pressure	Кра	10
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/s	165.3
	ft3/min(CFM)	350.0
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	6
Minimum Recommended Battery Capacity	CCA	750
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	16.4

# 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

② Protections:

Circuit breaker (preheating resist.) 2P (16 A)

Protection fuses for control module

- ③ Voltage&speed trimmers
- ④ Battery charger
- (5) DC switch
- ⑥ Working Lamp switch
- ⑦ Distribution:Direct output of the circuit breaker
- ③EPM6&EPM6+(cloud monitoring communication 4G)control

and protection centre;



#### EPmaster EPM6

It has a digital LCD screen, which provides easy reading of the information regarding the Engine, Alterator, Mains and Charging. The controller meets all requirements for Auto Mains Failure (AMF) applications including remote communication

and internet control, user configuration and complete genset monitoring and	protection.	
READINGS that can be made:	<ul> <li>Protection of the engine and alternator, with the ALARMS activated:</li> </ul>	•Other characteristics:
	Engine: low oil pressure/high coolant temperature/low and high battery Volta ge./failure of the alternator to charge batteries/Low fuel level.	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 m 99 event logs can be memorized.
<u>Alterator :</u> voltages between phases and between phases and neutral/frequ ency/phase sequence	Alterator: / ow and high voltage/low and high frequency/overload /short- circuit/	With maintenance function. Types (date or running time) can be optional and actions ( never, warning, or shutdown) can be set when maintenance time out.
<u>Mains: fr</u> equency/voltages between phases and between phases and neutr al (L1-N, L2-N,L3-N)/voltages between phases and (L1-L2, L2-L3, L1- L3)/phase sequence Load: Current(Ia,Ib,Ic)and each phase and total active power(kw)/reactive	<u>Mains:</u> over and under voltage and loss of phase	Equipped with CANBUS port and can communicate with J1939 enginet. Not only can monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, but a lso control starting up, shutdown, raising speed and speed droop via CANBUS port
power(kvar)/apparent power(kva)/power factor/accumulated generator pow	•Control of the set:	RS485 communication interface enables "Three remote" functions (remote control, re mote measuring and remote communication) according to MODBUS protocol.
	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	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 usin g front panel of the controller and also can be modified using PC via USB or RS485 p

Standard Configuration & Option		
Item	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
Engine	24V Electrical system	Engine water heater
Engine	Radiator with bloweing fan	
	Electronic governor	
	Sender WT	
	Sender OP	
	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
Alternator	Insulation H class	Space heater/anti-condensation heater
Alternator		Environment protection
		Temperature detectors
		Parallel operation
	Battery isolator switch	Distribution board with sockets kit and power busbar
Electrical system	3 poles circuit breaker	4 poles circuit breaker
	Door opening alarm	Adjustable ELCB (Earth Fault)
	Battery charger 220-240V	Grouding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
Accessories	Oil extraction pump	Trailer
	Tool kit for maintenance	Residential silencer
	Voltage/Speed potentiometer	Electric engine fuel heater
	No Expansion tank	Expansion tank for coolant water

## Generating Set transport data

Dimensions(Open Skid Type) With Standard Fuel Tank



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

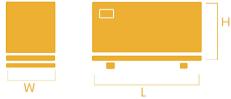
 $\sqrt{}$  Base frame design incorporates an integral fuel tank.

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

 $\sqrt{\text{Dial}}$  type fuel gauge and drain plug on the fuel tank;

 $\sqrt{\text{Forklift pockets within base frame (up to 500kVA);}}$ 

### Dimensions(Silent Type) With Standard Fuel Tank



VAII canopy parts are designed with modular principles

√ Without welding assembly

 $\sqrt{}$  All metal canopy parts are painted by electrostatic polyester powder paint.

√Doors on each side

 $\sqrt{T}hermally insulated engine exhaust system.$  $<math display="inline">\sqrt{E}mergency stop push button outside of canopy.$ 

VEasy maintenance and operation.



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3200

1100

1900

6.69

1900

300

Over All Size

Shipping Volume

Fuel Tank Capacity

Dry Weight

Length

Width

Height

Length	mm	2340	
Width	mm	900	
Height	mm	1450	
Shipping Volume	m3	3.05	
Dry Weight	Kg	1400	

mm

mm

mm

m3

Kg

L