

DCW-50T5 powered by:



DESIGN SPECIFICATIONS

 vHigh quality,reliable,long life and complete power unit.
 vcompact design.
 vEasy 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.
 vFully engineered with a wide range of options and accessories:Electrical,mechanical, soundproof canopy and mobile units

4BTA3.9-G2

Diesel Genset Features		P.F=0.8 3	Phase
Generating Set Performance		50Hz	
Service		Prime Power	Standby Power
Rated output	kVA	50	55
Active power output %	kW	40	44
Rated Speed	r.p.m	1	500
Standard Voltage	V	400	0/230
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). *Considering cos phi=0.8

Prime Mover Performance		1500 r.p.m	
SERVICE		Prime Power	Standby Power
Rated output	KW	50	55
Manufacturer		Cur	nmins
Model		4BTA	\3.9-G2
4 stroke Diesel Engine - Injection type		D	irect
Aspiration type		Turbocharged and Charge Air Cooled	
Cylinders,number and arrangement		4	ŀ-L
Bore×Stroke	mm	102	2X120
Total Displacement	L	;	3.9
Cooling system		Water	
ube oil specifications		SAE 1	15 W 40
Compression ratio		17	7.3:1
Specific fuel consumption(P.R.P)	L/h	12.9	
Specific oil consumption(at full load)	%	<	:0.1
Total coolant capacity	L	2	1.9
Speed governor	Туре	Elec	ctronic

() 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 20h 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		GRK40G4
Rated output	KW	40
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		1500 r.p.m
EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	°C	526
Exhaust Gas Temperature at full load	°F	978.8
Exhaust gas flow	L/s	125
Maximum allowed back pressure	Кра	10
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/s	49
	ft3/min(CFM)	103.8
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	4.5
Minimum Recommended Battery Capacity	CCA	312
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	10.9

Standard Control Panel -EPmaster EPM4

	Faceplate	Controller	Internal Structure
Protection, distribution, and automatic control panel, which starts the generator set when it detects a mains failure and st mains is restored with the control unit EPM4. It also starts and stops the group manually via a pushbutton or remote star			
It has the following:	0 0 Ŏ		Acceleration in the second
1) Emergency stop push button	on or state		
2 Protections:	Image: A state of the state	🖸 🖓 📾 🔁 🎁	HANNA HANNA
Circuit breaker (preheating resist.) 2P (16 A)	POWER INVECTOR LAW ENVECTOR #10		
Protection fuses for control module	GCB	Emergency Stop Button	Optional: ATS
③ Voltage&speed trimmers	and the second		
④ Battery charger		0 0	
(§ DC switch		SOLNOY OF	
⑥ Working Lamp switch			
⑦ Distribution:Direct output of the circuit breaker			
⑧ EPM4&EPM4+(cloud monitoring communication 4G)control	and the state	8	
and protection centre			
		-	

EBmostor EBM4

It has a digital LCD screen, which provides easy reading of the information r and internet control, user configuration and complete genset monitoring and		uirements for Auto Mains Failure (AMF) applications including remote communication
READINGS that can be made:	 Protection of the engine and alternator, with the ALARMS activated: 	•Other characteristics:
	<u>Engine :l</u> ow 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/frequency/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.
phases and (L1-L2, L2-L3, L1-L3)/phase sequence	Mains: 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
Load: Current(Ia,Ib,Ic)and each phase and total active power(kw)/reactive power(kvar)/apparent power(kva)/power factor/accumulated generator pow er(kwh,kvah,kvah)/output percentage with load (%)	•Control of the set:	RS485 communication interface enables "Three remote" functions (remote control, re mote 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 usin g front panel of the controller and also can be modified using PC via USB or RS485 p ort.

Standard Configuration & (Standard	Ontion
Item		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
Lingine	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
Allemator		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

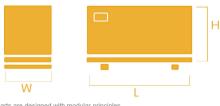


 \sqrt{The} complete gen-set is mounted on whole on a heavy-duty fabricated,steel base frame $\sqrt{Antivibration}$ pads are fixed between the engine/ alternator feet and the base frame ;

Antivioration pads are tixed between the engine/ alternator teet and the base tra- √ 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



 $\sqrt{\rm All}$ canopy parts are designed with modular principles. $\sqrt{\rm Without}$ 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.



Length	mm	1880
Width	mm	840
Height	mm	1220
Shipping Volume	m3	1.93
Dry Weight	Kg	850
Fuel Tank Capacity		100

Length	mm	2520	
Width	mm	1180	
Height	mm	1700	
Shipping Volume	m3	5.06	
Dry Weight	Kg	1340	



Tongan Industry Zone, Tongan District, Xiamen, China | Tel: +86 0592 7196398 | Fax: +86 0592 7898663| E-mail: vicsun@cngtl.com |www.cngtl.com