

DCW-438T6 powered by:



DESIGN SPECIFICATIONS

soundproof canopy and mobile units

√High guality,reliable,long life and complete power unit. √compact design. √Easy start and maintenance possibility. VExys year 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,

QSZ13-G2

Diesel Genset Features		P.F=0.8 3Phase	
Generating Set Performance		60Hz	
Service		Prime Power	Standby Power
Rated output	kVA	438	469
Active power output %	kW	350	375
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	

Voltage available ta 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		Prime Power	Standby Power
Rated output	KW	400	415
Manufacturer		Cummins	
Model		QSZ13-G2	
stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged&Charge Air Cooled	
Cylinders,number and arrangement		6 -L	
Bore×Stroke	mm	130X163	
Fotal Displacement	L	13	
Cooling system		Water	
ube oil specifications		SAE 15 W 40	
Compression ratio		17:1	
Specific fuel consumption(P.R.P)	L/h	90,2	
Specific oil consumption(at full load)	%	<0.1	
Total coolant capacity	L	73,1	
Speed governor	Туре	Common Rail	

@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		GRK320G4	
Rated output	KW	350	
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 MG	1-32,IEC34,CA C22.2-100,AS1359		

Generationg Set Installation Data		1800 r.p.m	
EXHAUST SYSTEM			
Exhaust Gas Temperature at full load	ĩC	449	
Exhaust Gas Temperature at full load	°F	840,2	
Exhaust gas flow	L/s	40,6	
Maximum allowed back pressure	Кра	10	
AIR REQUIREMENT			
Air requirement for combustion at 100% load/rated speed	L/s	555	
	ft3/min(CFM)	1175,3	
ELECTRIC STARTING SYSTEM			
Battary Recharge System, Negative ground	A	35	
Minimum Recommended Battery Capacity-Cold Soak @ 0 °F (-18 °C)	CCA	900	
Auxiliary voltage	V	24	
LUBRICATION SYSTEM	· · ·		
Lube oil system including sump,filters,etc.	L	75,33	

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

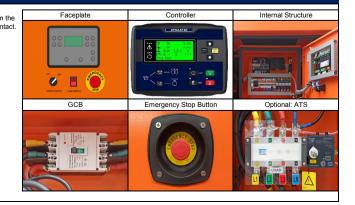
⑤ DC switch

⑥ Working Lamp switch

⑦ Distribution:Direct output of the circuit breaker

⑧ EPM6&EPM6+(cloud monitoring communication 4G)control

and protection centre



EPmaster EPM6/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 intermet control.user configuration and complete genset monitoring and protection.

READINGS that can be made:	•Protection of the engine and alternator, with the ALARMS activated:	•Other characteristics:	
	voltade./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). Maximum 99 event logs can be memorized.	
<u>Alterator</u> : voltages between phasesand between phases and neutral/frequency/phase sequence	Alterator: Jow and high voltage/Iow and high frequency/overload /short-circuit/	With maintenance function. Types (date or running time) can be selected and actions (warning or alarm shutdown) can be set when maintenance time out	
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	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 also 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 power(kwh,kvah,kvah)/output percentage with load (%)		RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.	
	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 using front panel of the controller and also can be modified using PC via USB or RS485 port.	

Standard Configuration & Op	otion	
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
and an	24V Electrical system	Engine water heater
ingine	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
14	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
	3 poles circuit breaker	4 poles circuit breaker
Electrical system	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



√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 ;

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

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

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

√Doors on each side √Thermally insulated engine exhaust system.

 $\sqrt{\rm Emergency}$ stop push button outside of canopy. $\sqrt{\rm Easy}$ maintenance and operation.



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



4600

1700

2250

17,60

5000

875

Over All Size

Length	mm	3100	
Width	mm	1380	
Height	mm	1850	
Shipping Volume	m3	7,91	
Shipping Volume Dry Weight	m3 Kg	7,91 4400	

mm

mm

mm

m3

Kg

Over All Size Length

Shipping Volume

Dry Weight Fuel Tank Capacity

Width

Height