



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

Internal Structure

Optior

QSZ13-G3

DCW-475T5 powered by:

cummins

Diesel Genset Features		P.F=0.8	3Phase
Generating Set Performance			50Hz
Service		Prime Power	Standby Power
Rated output	kVA	475	500
Active power output X	kW	380	400
Rated Speed	r.p.m		1500
Standard Voltage	V		400/230
Voltage available	V	380	0/220 - 415/240
Perforemance data refer to Standard Reference Conditions of ISO 8528:+2	5°C,100m ALT,relative humidity 30%	· · · · · · · · · · · · · · · · · · ·	
Power reduction acc.to DIN ISO 3046 Standard values:Above 100m ALT ap	orox.1% per 100m.Above 25°C(77°F) approx.4% per 10°C(50°F).	

*Considering cos phi=0.8

*Considering cos pri-o.o			
Prime Mover Performance	over Performance 1500 r.p.m).m
SERVICE		Prime Power	Standby Power
Rated output	KW	450	470
Manufacturer		Cum	nins
Model		QSZ1	3-G3
4 stroke Diesel Engine - Injection type		Dire	ect
Aspiration type		Turbocharged and	Charge Air Cooled
Cylinders,number and arrangement		6 -	L
Bore×Stroke	mm	130>	163
Total Displacement	L	1	3
Cooling system		Wa	ter
Lube oil specifications		SAE 15	5 W 40
Compression ratio		17	:1
Specific fuel consumption(P.R.P)	L/h	10	1
Specific oil consumption(at full load)	%	<0	.1
Total coolant capacity	L	73	.1
Speed governor	Туре	Comme	on Rail

(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 8046 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 a rates of reliable electrical network.

Synchronous Generator		1500 r.p.m
Manufacturer		Guericke
Model		GRK 380G4
Rated output	KW	380
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 (SX440)
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 JEC34 CA C22 2-100 AS1359	· · · · · · · · · · · · · · · · · · ·

Generationg Set Installation Data		1500 r.p.m
EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	°C	530
Exhaust das Temperature at fuir load	°F	986
Exhaust gas flow	L/s	36.5
Maximum allowed back pressure	Кра	10
AIR REQUIREMENT		
	L/s	495
Air requirement for combustion at 100% load/rated speed	ft3/min(CFM)	1048.2
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	8.5
Minimum Recommended Battery Capacity	CCA	900
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	45.42

Standard Control Panel -EPmaster EPM6

Desta di sudi sudi sudi sudi sudi sudi sudi s	Faceplate	Controller
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:		
Protection fuses for control module	GCB	Emergency Stop Button
③ Voltage&speed trimmers	Statistics of the second s	
 Battery charger DC switch Working Lamp switch Distribution:Direct output of the circuit breaker EPM6&EPM6+(cloud monitoring communication 4G)control and protection centre 		

EPmaster EPM6

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:
Engine: cooling temperature/oil pressure/revolution speed (rpm)/fuel level/b attery voltage/battery alternator voltage/operating hours/number of start	Engine: low oil pressure/high coolant temperature/low and high battery Voltag e./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.
Alterator : 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.
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 al so control starting up, shutdown, raising speed and speed droop via CANBUS port
Load: Current(la,lb,lc)and each phase and total active power(kw)/reactive p ower(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, 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 using front panel of the controller and also can be modified using PC via USB or RS485 port

Standard Configuration & O	ption	
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
-	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
A 14	Insulation H class	Space heater/anti-condensation heater
Iternator		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

Over All Size Length

Shipping Volume

Fuel Tank Capacity

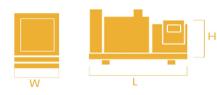
Dry Weight

Width

Height

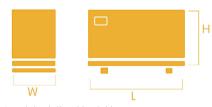
Generating Set transport data

Dimensions(Open Skid Type) With Standard Fuel Tank



The complete gen-set is mounted on whole on a heavy-duty fabricated, steel base frame. V the complete generation back is molecular of while an leavy-built ablicated, seen back that is a leavy-built ablicated by the base frame (back that is a leavy-built ablicated, seen back that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the base frame, that is a leavy-built ablicated by the

Dimensions(Silent Type) With Standard Fuel Tank



Length	mm	4910
Width	mm	1790
Height	mm	2440
Shipping Volume	m3	21.44
Dry Weight	Kg	5655
Fuel Tank Capacity		889

mm

mm

mm

m3

Kg

L.

3230

1160

2060

7.72

3120

889

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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