

DCW-450T5 powered by:







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 Training and Greeking and proving or all control and safety stud down functions testing.

√Fully engineered with a wide range of options and accessories:Electrical,mechanical

soundproof canopy and mobile units

Diesel Genset Features		P.F=0.8 3P	hase
Generating Set Performance		501	-lz
Service		Prime Power	Standby Power
Rated output	kVA	450	500
Active power output **	kW	360	400
Rated Speed	r.p.m	150	00
Standard Voltage	V	400/	230
Voltage available	V	380/220 -	415/240

data refer to Standard Reference Conditions of ISO 8528:+25℃,100m ALT,relative humidity 3

er 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	411	470
Manufacturer		Cum	mins
Model		QSZ1	3-G5
4 stroke Diesel Engine - Injection type		Dir	ect
Aspiration type		Turbocharged and	Charge Air Cooled
Cylinders,number and arrangement		6	-L
Bore×Stroke	mm	130)	K163
Total Displacement	L	1	3
Cooling system		Wa	iter
Lube oil specifications		SAE 1	5 W 40
Compression ratio		17	':1
Specific fuel consumption(P.R.P)	L/h	93	3.2
Specific oil consumption(at full load)	%	<(0.1
Total coolant capacity	L	77	'.1
Speed governor	Туре	Comm	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 124 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 incase of fallable electrical network.

Synchronous Generator		1500 r.p.m
Manufacturer		Guericke
Model		GRK 360G4
Rated output	KW	360
Poles	num	4
Winding Conections (standard)		Star-serie 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

	1500 r.p.m		
	·		
℃	485		
°F	905		
L/s	34.1		
Кра	10		
AIR REQUIREMENT			
L/s	463		
ft3/min(CFM)	980.5		
ELECTRIC STARTING SYSTEM			
kw	8.5		
CCA	900		
V	24		
L	75.33		
	TF L/s Kpa L/s ft3/min(CFM)		

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

Battery charger

(§) DC switch

Working Lamp switch

② Distribution:Direct output of the circuit breaker

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

and protection centre



EPmaster EPM6

Let made Let mother than 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:	-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	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		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: f</u> requency/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	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 all so control starting up, shutdown, raising speed and speed droop via CANBUS port
<u>Load:</u> Current(la,lb,lc)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 (%)	•Control of the set:	RS485 communication interface enables "Three remote" functions (remote control, re mote measuring and remote communication) according to MODBUS protocol.
	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 port

Standard Configuration & Option		
Item	Standard	Option
i	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
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
	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.

- Antivibration pads are fixed between the engine/ alternator feet and the base frame;

 √ Antivibration pads are fixed between the engine/ alternator feet and the base frame;

 √ 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);

Over All Size

Length	mm	3230	
Width	mm	1160	
Height	mm	2060	
Shipping Volume	m3	7.72	
Dry Weight	Kg	3120	
Fuel Tank Capacity		820	

Dimensions(Silent Type) With Standard Fuel Tank



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.

Over All Size

Length	mm	4910
Width	mm	1790
Height	mm	2440
Shipping Volume	m3	21.44
Dry Weight	Kg	5655
Fuel Tank Canacity	_	920



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