

# **DCW-450T6** powered by: QSZ13-G7



#### 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.

 $\sqrt{\mathsf{Fully}}$  engineered with a wide range of options and

QSZ13-G7		√Fully engineered with a wide range of options and accessories:Electrical,mechanical,soundproof canopy and mobile units	
Diesel Genset Features		P.I	==0.8 3Phase
Generating Set Performance		60	Hz
Service		P.R.P	Standby
Rated output	kVA	450	488
Active power output  %	kW	360	390
Rated Speed	r.p.m	1800	
Standard Voltage	V	380/220	
Voltage available	V	480/277-460/265 - 440/254-416	6/240-240/139-220/127-208/120

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		1800 r.p.m	
SERVICE		P.R.P	Standby
Rated output	KW	409	467
<i>M</i> anufacturer		Cun	nmins
Nodel		QSZ	13-G7
stroke Diesel Engine - Injection type		Di	rect
Aspiration type		Turbocharged C	Charge Air Cooled
Cylinders, number and arrangement		6	-L
Bore×Stroke	mm	130	X163
Fotal Displacement	L		13
Cooling system		W	ater
ube oil specifications		SAE 1	5 W 40
Compression ratio		1	7:1
Specific fuel consumption(P.R.P)	L/h	8	9.2
Specific oil consumption(at full load)	%	<	0.1
Fotal coolant capacity (Engine Only)	L	2	3.1
Speed governor	Туре	E	СМ

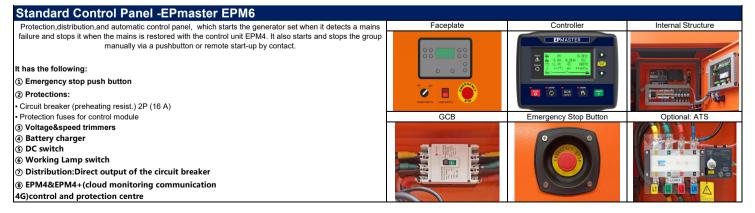
() P.R.P. Prime Power - ISO 8528: PRIME POWER is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

②Max 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		
Manufacturer		Guericke
Model		GRK 360G4
Rated output		360
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 (KRSX440B)
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		1800 r.p.m	
		100	
Exhaust Gas Temperature at full load	Ĉ	462	
	°F	863.6	
Maximum allowed back pressure	Кра	13	
AIR REQUIREMENT			
Air remains the complexation of 1000/ load/asted aread	L/s	580	
Air requirement for combustion at 100% load/rated speed	ft3/min(CFM)	1228.2	
ELECTRIC STARTING SYSTEM			
Starting motor output	kw	8.5	
Minimum Recommended Battery Capacity-Cold Soak @ 32°F (to 0°C)	CCA	900	
Standard Battery Charging System	A	70	
Auxiliary voltage	V	24	
LUBRICATION SYSTEM	· · · · ·		
Lube oil system including sump, filters, etc.	L	75.33	



#### 

EPmaster EPwo		
		The controller meets all requirements for Auto Mains Failure (AMF) applications.
including remote communication and internet control, user config	uration and complete genset monitoring and protection.	
READINGS that can be made:	•Protection of the engine and alternator, with the ALARMS activated:	•Other characteristics:
		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/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.
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 al so control starting up, shutdown, raising speed and speed droop via CANBUS port
	•Control of the set:	RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to MODBUS protocol.
	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 f ront panel of the controller and also can be modified using PC via USB or RS485 port.

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
	3 poles circuit breaker	4 poles circuit breaker
Electrical system	Door opening alarm	Adjustable ELCB (Earth Fault )
	Battery charger 220-240V	Grouding rod
		ATS
Accessories	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
	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



 $\sqrt{\text{The complete gen-set is mounted on whole on a heavy-duty fabricated, steel base frame.}}$ 

 $\sqrt{}$  Antivibration pads are fixed between the engine/ alternator feet and the base frame ;

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



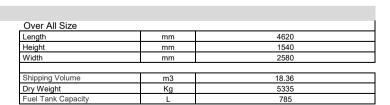
 $\sqrt{\rm All}$  canopy parts are designed with modular principles.  $\sqrt{\rm Without}$  welding assembly

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

√Doors on each side

 $\sqrt{Thermally}$  insulated engine exhaust system.  $\sqrt{Emergency}$  stop push button outside of canopy.  $\sqrt{Easy}$  maintenance and operation.

**ISO** 9001



Over All Size

Over All Size			
Length	mm	3230	
Height	mm	1160	
Width	mm	2060	
Shipping Volume	m3	7.72	
Dry Weight	Kg	3120	
Fuel Tank Capacity	L	785	

