

DCW-313T5 powered by: unins



DESIGN SPECIFICATIONS

High quality, reliable, long life and complete power unit. \compact design. \Easy start and maintenance possibility. \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

Optional: ATS

TA A O E ~ ~1

Diesel Genset Features		P.F=0.8 3	Phase
Generating Set Performance		50)Hz
Service		Prime Power	Standby Power
Rated output	kVA	313	344
Active power output %	kW	250	275
Rated Speed	r.p.m	1	500
Standard Voltage	V	400	0/230
Voltage available	V	380/220	- 415/240
Power reduction acc.to DIN ISO 3046 Standard values:Above 100m ALT approx.1% per 100m.Abov	e 25℃(77℉) approx.4% per 10℃(50℉).		
«Considering cos phi=0.8	e 25℃(77°F) approx.4% per 10℃(50°F).	1500 r.	p.m
Considering cos phi=0.8 Prime Mover Performance	e 25℃(77°F) approx.4% per 10℃(50°F).	1500 r. Prime Power	p.m Standby Power
**Considering cos phi=0.8 Prime Mover Performance service	e 25°C(77°F) approx.4% per 10°C(50°F).		
Considering cos phi=0.8 Prime Mover Performance SERVICE Rated output		Prime Power 290	Standby Power
Considering cos phi=0.8 Prime Mover Performance SERVICE Rated output Manufacturer		Prime Power 290 Cur	Standby Power 320
**Considering cos phi=0.8 Prime Mover Performance SERVICE Rated output Manufacturer Model		Prime Power 290 Cur 6LTA	Standby Power 320 nmins
		Prime Power 290 Cur 6LTA D	Standby Power 320 nmins A9.5-G1
*Considering cos phi=0.8 Prime Mover Performance SERVICE Rated output Vanufacturer Vodel 4 stroke Diesel Engine - Injection type		Prime Power 290 Cur 6LTA D Turbocharged and	Standby Power 320 nmins A9.5-G1 rect

	6 -L
mm	116.5X148
L	9.5
	Water
	SAE 15 W 40
	16.6:1
L/h	70
%	<0.1
L	57.1
Туре	Electronic
	L L/h % L

DP.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 durin 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 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		GRK 250G4
Rated output	KW	250
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 VE	0E0530 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	580
Exhaust Gas Temperature at full load	°F	1076
Exhaust gas flow	L/s	23
Maximum allowed back pressure	Кра	10
AIR REQUIREMENT	· · · ·	
Air requirement for combustion at 100% load/rated speed	L/s	313
Air requirement for compusition at 100% load/rated speed	ft3/min(CFM)	662.8
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	7.5
Minimum Recommended Battery Capacity	CCA	750
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	32.4

Standard Control Panel -EPmaster EPM6

	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.	000	
It has the following:	0 0 0	C Stop Rode
 Emergency stop push button 		
(2) Protections:	Ø 🗄 🍎	
Circuit breaker (preheating resist.) 2P (16 A)	POWER SAFETY LAW SAFETY STOP	
Protection fuses for control module	GCB	Emergency Stop Button
③ Voltage&speed trimmers	and the second	
Battery charger		0 0
⑤ DC switch		StateNOP of
© Working Lamp switch		
⑦ Distribution:Direct output of the circuit breaker		
⑧ EPM6&EPM6+(cloud monitoring communication 4G)control		
and protection centre		

EPmaster EPM6

as a digital LOB 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 i 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 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 & 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
Freine	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/IP55
A 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

Over All Size Length

Shipping Volume

Fuel Tank Capacity

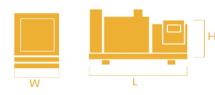
Dry Weight

Width

Height

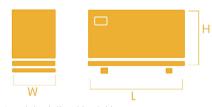
Generating Set transport data

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 leasy-bulk pathcaled, seen back that is a new pathcale of the analysis of the lease that is a set of the lease that the lea

Dimensions(Silent Type) With Standard Fuel Tank



Length	mm	3500
Width	mm	1300
Height	mm	2220
Shipping Volume	m3	10.10
Dry Weight	Kg	3250
Fuel Tank Capacity		616

mm

mm

mm

m3

Kg

L.

2900

1160

1630

5.48

2140

616

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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