



DCW-438T6 powered by:

6ZTAA13-G2

D G

Diesel Genset Features		Р.	F=0.8 3Phase		
Generating Set Performance		60Hz			
Service		P.R.P	Standby		
Rated output	kVA	438	475		
Active power output %	kW	350	380		
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 V e data refer to Standard Reference Conditions of ISO 8528 + 25 ° 100m Al T relati ve humidity 30

wer 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	390	415			
Manufacturer		Cummins				
Model		6ZTAA13-G2				
4 stroke Diesel Engine - Injection type		Direct				
Aspiration type		Turbocharged&Charge Air Cooled				
Cylinders,number and arrangement		6 -L				
Bore×Stroke	mm	130X163				
Total Displacement	L	13				
Cooling system		Water				
Lube oil specifications		SAE 15 W 40				
Compression ratio		17:1				
Specific fuel consumption(P.R.P)	L/h	95.6				
Specific oil consumption(at full load)	%	<0.1				
Total coolant capacity	L	73.1				
Speed governor	Туре	Electronic				

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 ermissible 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 20h per year. No verload available. Applicable in case of failure of the main in areas of reliable electrical network.

lanufacturer		Guericke
Model		GRK 350G4
Rated output		350
Poles	num	4
Vinding Conections (standard)		Star-serie
nsulation	class	Н
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
/otage Regulaors		A.V.R (SX460)
Steady voltage precision		within±1.5% from no load to full loading with cosΦ=0.8-1.0

Generationg Set Installation Data	1800 r.p.m			
EXHAUST SYSTEM				
Exhaust Gas Temperature at full load	°C	607		
	°F	1124.6		
Exhaust gas flow	L/s	39.5		
Maximum allowed back pressure	Kpa	10		
AIR REQUIREMENT				
Air requirement for combustion at 100% load/rated speed	L/s	637		
	ft3/min(CFM)	1348.9		
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	80		
Auxiliary voltage	V	24		
LUBRICATION SYSTEM				
Lube oil system including sump.filters.etc.	L	45.42		

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 EPM4. It also starts and stops the group Faceplate manually via a pushbutton or remote start-up by contact. It has the following: Emergency stop push button . 8 0 ② Protections: Circuit breaker (preheating resist.) 2P (16 A) GCB Protection fuses for control module Emergency Stop Button Optional: ATS ③ Voltage&speed trimmers ④ Battery charger⑤ DC switch Working Lamp switch ⑦ Distribution:Direct output of the circuit breaker ⑧ EPM6&EPM6+(cloud monitoring communication 4G)control and protection centre

DESIGN SPECIFICATIONS

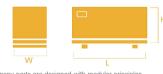
VHigh quality, reliable, long life and complete power unit. √ compact design.

√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

READINGS that can be made:	 Protection of the engine and alternator, with the ALARMS activated: 	י •Ot	ther charact	eristics:		
Engine: cooling temperature/oil pressure/revolution speed	Engine : low oil pressure/high coolant temperature/low ar	d bi Eve	ent log real-time	e clock, schedul	ed start & stop generator	
	gh battery Voltage./failure of the alternator to charge batte /Low fuel level.			day/week/month whether with load or not). Maxin		
<u>Atterator :</u> voltages between phases and between phases and leutral/frequency/phase sequence	Alterator: /ow and high voltage/low and high frequency/overl With maintenance function. Types (date or running time) can be or or distribution of the set when maintenance time in ever, warning, or shutdown) can be set when maintenance time					
<u>Mains: f</u> requency/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	mor tem	Equipped with CANBUS port and can communicate with J1939 enginet. N monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU m so control starting up, shutdown, raising speed and speed droop via CAN		n as water iuel consumption and so on) of ECU machine, bu	
	•Control of the set:	(ren	RS485 communication interface enables "Three remote" functions (remote control, remote measuring and remote communication) according to C enstroad			
	also operate MANI IALLY and Auto Transfer Switch control		rameter setting: I cannot be lost	g: parameters can be modified and stored in internal FLASH memory st even in case of power outage; most of them can be adjusted using controller and also can be modified using PC via USB or RS485 por		
Standard Configuration & Option						
tem	Standard			Option		
	Standard air filter			Heavy duty air f	ilter	
	Standard fuel filter				ff valve chalwin type	
	Standard oil filter			Intake air heate	r	
	Low coolant level sensor			Oil temperature	sensor	
	Exhaust gases compensator			Diesel-powered heater		
ngine	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		
				Environment protection		
				Temperature detectors		
				Parallel operation		
	Battery isolator switch			Distribution board with sockets kit and power busbar 4 poles circuit breaker		
Electrical system	3 poles circuit breaker Door opening alarm			Adjustable ELCB (Earth Fault)		
				Grouding rod		
	Battery charger 220-240V			ATS		
	Water separator filter			ATS 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					
	Over All	Size				
	Length			mm	3200	
	Height			mm	1380	
	Width			mm	1850	
W L	Shipping V	olume		m3	8.17	
	Dry Weight			Kg	4600	
	Fuel Tank			L	765	
The complete gen-set is mounted on whole on a heavy-duty fal Antivibration pads are fixed between the engine/ alternator fee / Base frame design incorporates an integral fuel tank. The generating set can be lifted or carefully pushed / pulled by Dial type fuel gauge and drain plug on the fuel tank;	t and the base frame ;					

Dimensions(Silent Type) With Standard Fuel Tank



Over All Size			
Length	mm	4500	
Height	mm	1700	
Width	mm	2250	
	-		
Shipping Volume	m3	17.21	
Dry Weight	Kg	5200	
Fuel Tank Capacity	L	765	

√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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