

## **CCW-1413T6** powered by:





#### **DESIGN SPECIFICATIONS**

√High quality,reliable,long life and complete power unit.

VHigh quality,reliable,long line and complete portion drain.

√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

Diesel Genset Features		P.F=0.8 3P	hase
Generating Set Performance		60H	lz
Service		Prime Power	Standby Power
Rated output	kVA	1413	1475
Active power output **	kW	1130	1180
Rated Speed	r.p.m	180	0
Standard Voltage	V	380/2	20
Voltage available	V	480/277-460/265 - 440/254-416/	240-240/139-220/127-208/120

Perforemance data refer to Standard Reference Conditions of ISO 8528:+25\(\capprox\).100m ALT.relative humidity 30\(\capprox\)

Power reduction acc.to DIN ISO 3046 Standard values:Above 100m ALT approx.1% per 100m.Above 25℃(77™) approx.4% per 10℃(50™). 

Prime Mover Performance		1800 r.p.m	
SERVICE		Prime Power	Standby Power
Rated output	KW	P.R.P	Standby
Manufacturer		1256	1306
Model		Cummins	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged and Low Temperature Aftercooled (2P2L)	
Cylinders,number and arrangement		4-Cycle, 60° Vee	, 16 Cylinder Diesel
Bore×Stroke	mm	159X159	
Total Displacement	L	5	50.3
Cooling system		W	/ater
Lube oil specifications		1	N.A
Compression ratio		13	3.9:1
Specific fuel consumption(P.R.P)	L/h	2	249
Specific oil consumption(at full load)	%	<	(0.1
Total coolant capacity	L	140.1	
Speed governor	Туре	Direct Injection	on Cummins PT

①P.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 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		1800 r.p.m
Manufacturer		Guericke
Model		GRK1100G4
Rated output	KW	1100
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 (PMG MX341)
Steady voltage precision		within±1.0% 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,IEC34,CA C22.2-100,AS1359	

	1800 r.p.m		
$^{\circ}$	396		
°F	744		
L/s	4002		
Кра	6.8		
AIR REQUIREMENT			
L/h	6422400		
ft3/min(CFM)	3780.0		
A	35		
CCA	1800		
V	24		
L	167.8		
	TF L/s Kpa  L/h ft3/min(CFM)		

#### Standard Control Panel -EPmaster EPM7

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 EPM7. It also starts and stops the group manually via a pushbutton or remote start-up by contact.

#### t has the following:

1 Emergency stop push button

② Protections:

Circuit breaker (preheating resist.) 2P (16 A)

Protection fuses for control module 3 Voltage&speed trimmers

Battery charger

⑤ DC switch Working Lamp switch

Tistribution:Direct output of the circuit breaker

®EPM7& EPM7+(cloud monitoring communication 4G)control

and protection centre

# EPmaster EPM7

It has a digital LCD 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 and internet control, user configuration and complete genset monitoring and protection.



In READINGS that can be made.	-Protection of the engine and alternator, with the ALARMS activated:	-Other characteristics:
	Engine: Low oil pressure/high coolant temperature/low and high battery Volta ge./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). Maximum 99 event logs can be memorized.
Alterator: voltages between phases and between phases and neutral/frequency/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.
Mains: frequency/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	<u>Mains:</u> 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 also 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, remote measuring and remote communication) according to MODBUS protocol.
		Parameter setting: parameters can be modified and stored in internal FLASH memor y 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

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	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
Frains	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
Allemator		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



- $\forall$  Antivibration pads are fixed between the engine/ alternator feet and the base frame ;  $\forall$  Base frame design incorporates an integral fuel tank.
- $\sqrt{\mbox{ The generating set can be lifted or carefully pushed / pulled by the base frame;}$
- $\sqrt{\text{Dial}}$  type fuel gauge and drain plug on the fuel tank;  $\sqrt{\text{Forklift}}$  pockets within base frame (up to 500kVA);

# Over All Size

mm	5250
mm	2110
mm	2550
m3	2.83
Kg	10600
L	3000
	mm m3

### Dimensions(Silent Type) With Standard Fuel Tank



- √All canopy parts are designed with modular principles.
- $\sqrt$  Without welding assembly  $\sqrt$  All metal canopy parts are painted by electrostatic polyester powder paint.
- $\sqrt{\text{Doors}}$  on each side  $\sqrt{\text{Thermally insulated engine exhaust system}}$ .
- √Emergency stop push button outside of canopy. √Easy maintenance and operation.

## Over All Size

Length	mm	12192
Width	mm	2438
Height	mm	2896
Shipping Volume	m3	8.61
Dry Weight	Kg	16200
Fuel Tank Capacity	L	3000





Tongan Industry Zone,Tongan District, Xiamen, China | Tel: +86 0592 7196398 | Fax: +86 0592 7898663| E-mail: vicsun@cngtl.com | www.cngtl.com