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.
√Fully engineered with a wide range of options and accessories:Electrical,mechanical, soundproof canopy and mobile units

CCW-1525T6 powered by:

KTA50-G12A

Diesel Genset Features — P.F=0.8 3Phase

Generating Set Performance — 60Hz

Service		Prime Power	Standby Power
Rated output	kVA	1525	1788
Active power output※	kW	1220	1430
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	

Performeance data refer to Standard Reference Conditions of ISO 8528:＋25℃,100m ALT,relative humidity 30%

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

※Considering cos phi=0.8

Prime Mover Performance — 1800 r.p.m

SERVICE		Prime Power	Standby Power
Rated output	KW	**P.R.P**	**Standby**
Manufacturer		1347	1582
Model		Cummins	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged , LTA	
Cylinders,number and arrangement		4-Cycle, 60° Vee, 16 Cylinder Diesel	
Bore×Stroke	mm	159X159	
Total Displacement	L	50.3	
Cooling system		Water	
Lube oil specifications		N.A	
Compression ratio		13.9:1	
Specific fuel consumption(P.R.P)	L/h	368.21	
Specific oil consumption(at full load)	%	<0.1	
Total coolant capacity	L	140	
Speed governor	Type	Direct Injection 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.

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 — 1800 r.p.m

Manufacturer		Guericke
Model		GRK1200G4
Rated output	KW	1200
Poles	num	4
Winding Conections (standard)		Star-serie
Insulation	class	H
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 MG1-32,IEC34,CA C22.2-100,AS1359

Generationg Set Installation Data — 1800 r.p.m

EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	℃	454
	℉	849
Exhaust gas flow	L/s	4429
Maximum allowed back pressure	Kpa	6.8
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/h	7023600
	ft3/min(CFM)	4133.0
ELECTRIC STARTING SYSTEM		
Battary Recharge System,Negative ground	A	35
Minimum Recommended Battery Capacity cold soak at -18 to 0 deg C	CCA	1800
Auxiliary voltage	V	24
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	176.8

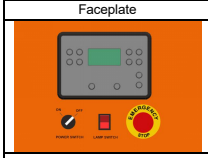
Standard Control Panel -EPmaster EPM7

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.

It has the following:

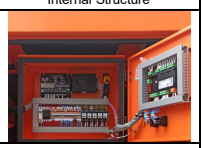
① Emergency stop push button
② Protections:
• Circuit breaker (preheating resist.) 2P (16 A)
• Protection fuses for control module
③ Voltage&speed trimmers
④ Battery charger
⑤ DC switch
⑥ Working Lamp switch
⑦ Distribution:Direct output of the circuit breaker
⑧EPM7& EPM7+(cloud monitoring communication 4G)control and protection centre

Faceplate



Controller

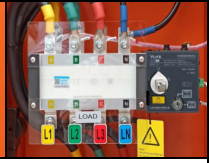
Internal Structure



GCB

Emergency Stop Button

Optional: ATS



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.

▪ 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/battery voltage/battery alternator voltage/operating hours/number of start	***Engine :***low oil pressure/high coolant temperature/low and high battery Voltage./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:*** low 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 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 also control starting up, shutdown, raising speed and speed droop via CANBUS port
Load: Current(Ia,Ib,Ic)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.
	STARTS and STOPS the set AUTOMATICALLY when mains failure is detected and when it is restored, respectively.It can 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 front panel of the controller and also can be modified using PC via USB or RS485 port.

Standard Configuration & Option

Item	Standard	Option
Engine	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
	Radiator with bloweing fan	
	Electronic governor	
	Sender WT	
	Sender OP	
	Hot components and radiator guards	
	Mobile components guards	
Alternator	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
	Insulation H class	Space heater/anti-condensation heater
		Environment protection
		Temperature detectors
		Parallel operation
Electrical system	Battery isolator switch	Distribution board with sockets kit and power busbar
	3 poles circuit breaker	4 poles circuit breaker
	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

Over All Size

Length	mm	5250
Width	mm	2110
Height	mm	2550

Shipping Volume	m3	2.83
Dry Weight	Kg	10600
Fuel Tank Capacity	L	3000

√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 ;
√ 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);

Dimensions(Silent Type) With Standard Fuel Tank

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

√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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