



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-875T6 powered by:



Diesel Genset Features P.F=0.8 3Phase

Generating Set Performance		60Hz	
Service		Prime Power	Standby Power
Rated output	KVA	875	963
Active power output**	kW	700	770
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	

Performance 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		Prime Power	Standby Power
Rated output	KW	P.R.P	Standby
Manufacturer		634	701
Model		Cummins	
4 stroke Diesel Engine - Injection type		Direct	
Aspiration type		Turbocharged&Aftercooled	
Cylinders, number and arrangement		12 -V	
Bore×Stroke	mm	159X159	
Total Displacement	L	38	
Cooling system		Water	
Lube oil specifications		N.A	
Compression ratio		14.5:1	
Specific fuel consumption(P.R.P)	L/h	198	
Specific oil consumption(at full load)	%	<0.1	
Total coolant capacity	L	236.8	
Speed governor	Type	Direct Injection Cummins PT(E)	

① 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.
 ② 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 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		GRK640G4(PMG)
Rated output	KW	640
Poles	num	4
Winding Connections (standard)		Star-serie
Insulation	class	H
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Voltage 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

Generating Set Installation Data 1800 r.p.m

EXHAUST SYSTEM			
Exhaust Gas Temperature at full load	°C	479	
	°F	894.2	
Exhaust gas flow	L/s	3141	
Maximum allowed back pressure	Kpa	10	
AIR REQUIREMENT			
Air requirement for combustion at 100% load/ rated speed	L/s	1204	
	ft3/min(CFM)	2549.7	
ELECTRIC STARTING SYSTEM			
Battery 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	135.1	

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
- ⑧ EPM7& EPM7+(cloud monitoring communication 4G) control and protection centre



EPmaster EPM7

